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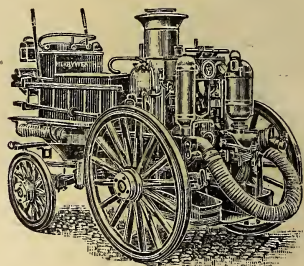
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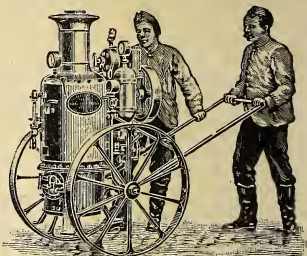
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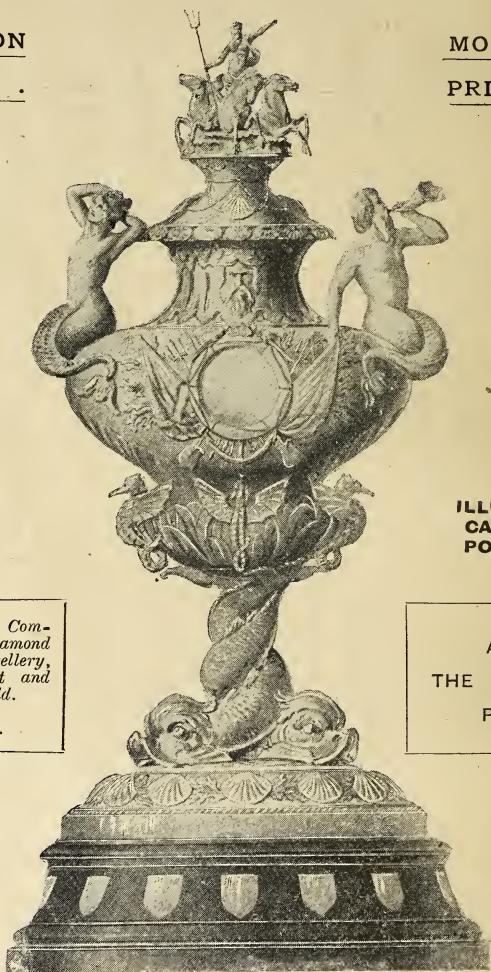
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# OFFICIAL GUIDE

TO THE

# International Fire Exhibition

## 1903.

---

THE twenty-three acres comprising Earl's Court Grounds may be said to be divided into three portions (see Coloured Map herein), separated by Streams of Railway and connected by Covered Arcades and Bridges. For the sake of clearness these three are called (1) the Western Gardens, (2) the Imperial Court, and (3) the Queen's Court.

Taking them in reverse order, the

### QUEEN'S COURT

has two public entrances, opposite the West Brompton Station and the Earl's Court Station respectively. The latter entrance leads directly into a spacious vestibule, through the turnstiles, past the Princes' Hall—the meeting place of the International Fire Prevention Congress—and into the

### GERMAN COURT

which occupies the whole of the Ducal Hall.

On the left is a Cloak Room for the safe repository, at a nominal fee, of superfluous bags, wraps and coats. Entering this spacious Hall, the superb display of Exhibits from Germany confronts the visitor from all sides. Here can be seen the perfection of the work of the best German engineers and fire-fighting experts, from the powerful motor fire-engines down to the most ingenious of fire-alarms. For details of the Exhibits and Exhibitors the reader must be referred to the Catalogue at Page 111.



Passing through the Hall and into the open air of the

## QUEEN'S COURT

a scene that delights the eye is disclosed. The background is formed by the artistically-designed and daintily-decorated façade of the

### Queen's Palace,

which rises on the farther edge of the picturesque lake. The rippling waters, cleft by the fleet of swift, though silently moving, electric launches, by day dance in the sunlight, and by night throw a million scintillating reflections back at

#### THE IRRADIATED SHORES.

On left and right the picturesque lake is spanned by covered bridges of tasteful design, and reminiscent of Venice. In the immediate foreground from the Pavilion come the melodious renderings of a high-class military band. Around and among the beds of flowers comfortable seats and tables offer rest and light refreshment to the music's accompaniment. More solid repast is obtainable at the two Grill Rooms and Restaurants adjacent to the Court.

Continuing onward and turning to the left brings the

## GIANT CHUTE

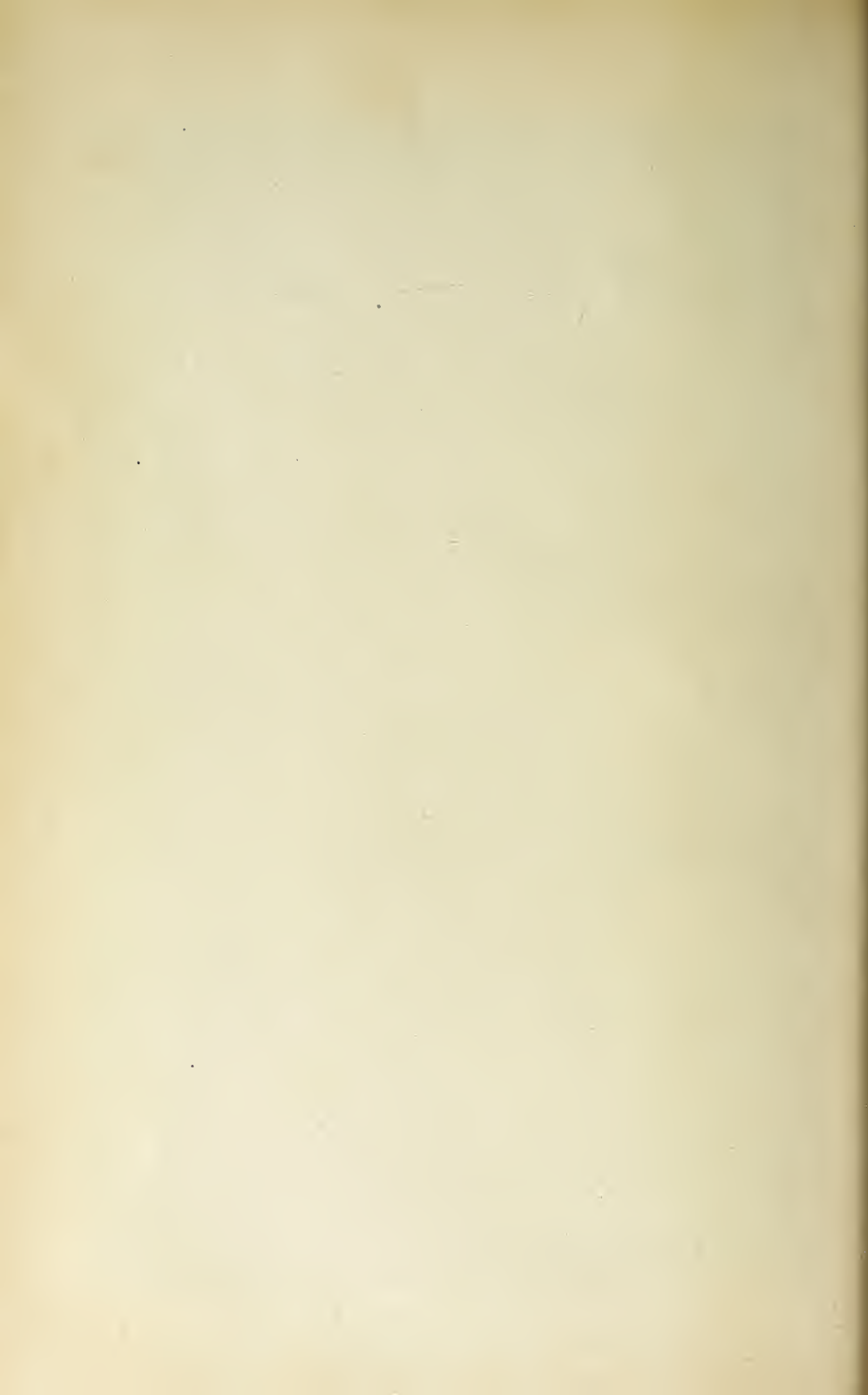
in view, a scene of such excitement and hilarity that it is never without its hundreds of active or passive participators the live-long day. It is at the back of the Chute that entrance from the West Brompton Station is made. After you have temporarily overcome the fascination of

### Shooting the Chute

the magnificent scenic representations of Old London Bridge and a view from Waterloo Bridge will be found well worthy of contemplation. The former historic structure is depicted as it was before the Great Fire. How it and London City were destroyed



FAÇADE OF QUEEN'S COURT, SHOWING BRIDGE AND LAKE, TAKEN FROM DUCAL HALL.





is shown with graphic vividness in another portion of the Grounds. Now the portals of the

## QUEEN'S PALACE

stand open and invite you to a magnificent international display of everything that can help to check or prevent the ravages of Fire, that "good servant, but tyrannical master." For particulars of these Exhibits Page 131 should be referred to. At the north exit of the Palace the

## River of Fiery Lava

will bear you on its glowing bosom through the bowels of the earth and past sights of impressive splendour. Upon coming once more "on shore," a short walk through the Queen's Palace and the Covered Arcade leading from it will bring you to the steps entering

## IMPERIAL COURT.

It has two entrances from outside—one at West Kensington Station, and the other at Lillie Road close to the two West Brompton Stations. Going down the steps the

## Elevator Staircase

may be seen in full working, saving all who desire the exertion of walking up. It has been said of this ingenious staircase that "one does not need to go upstairs, for the stairs itself goes upstairs and takes you with it"—which is perfectly true, strange though it may sound. At the foot of the broad stairs to the left stands the colossal

## EMPRESS THEATRE,

where the thrilling dramatic spectacle of

## "FIGHTING THE FLAMES"

is enacted twice daily in the capacious arena by 500 firemen and

civilians. This absorbing and realistic scena has never been approached for vividness, completeness of setting, and accurate fidelity in the world before. By trained firemen and modern appliances, a large and threatening fire is successfully combated



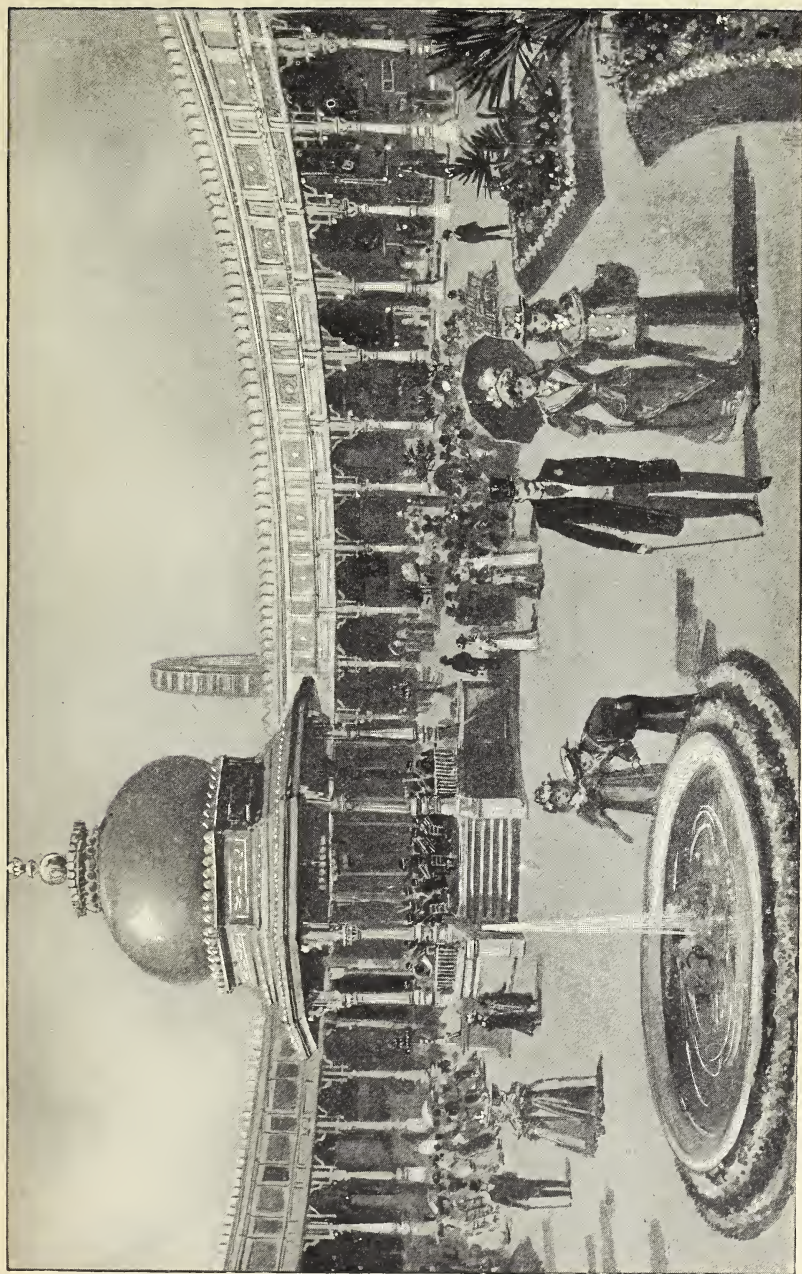
from beginning to end in a thoroughly workmanlike manner. The outbreak, the ringing of the electric alarm, the police marshaling back the spectators, and the racing in of the fire engines are realistic and as if in every-day life. The results are that the comfortably-seated visitor sees for the first time a

## GREAT CONFLAGRATION,

from the alarm in the crowded streets down to the triumph of skill and science, and the

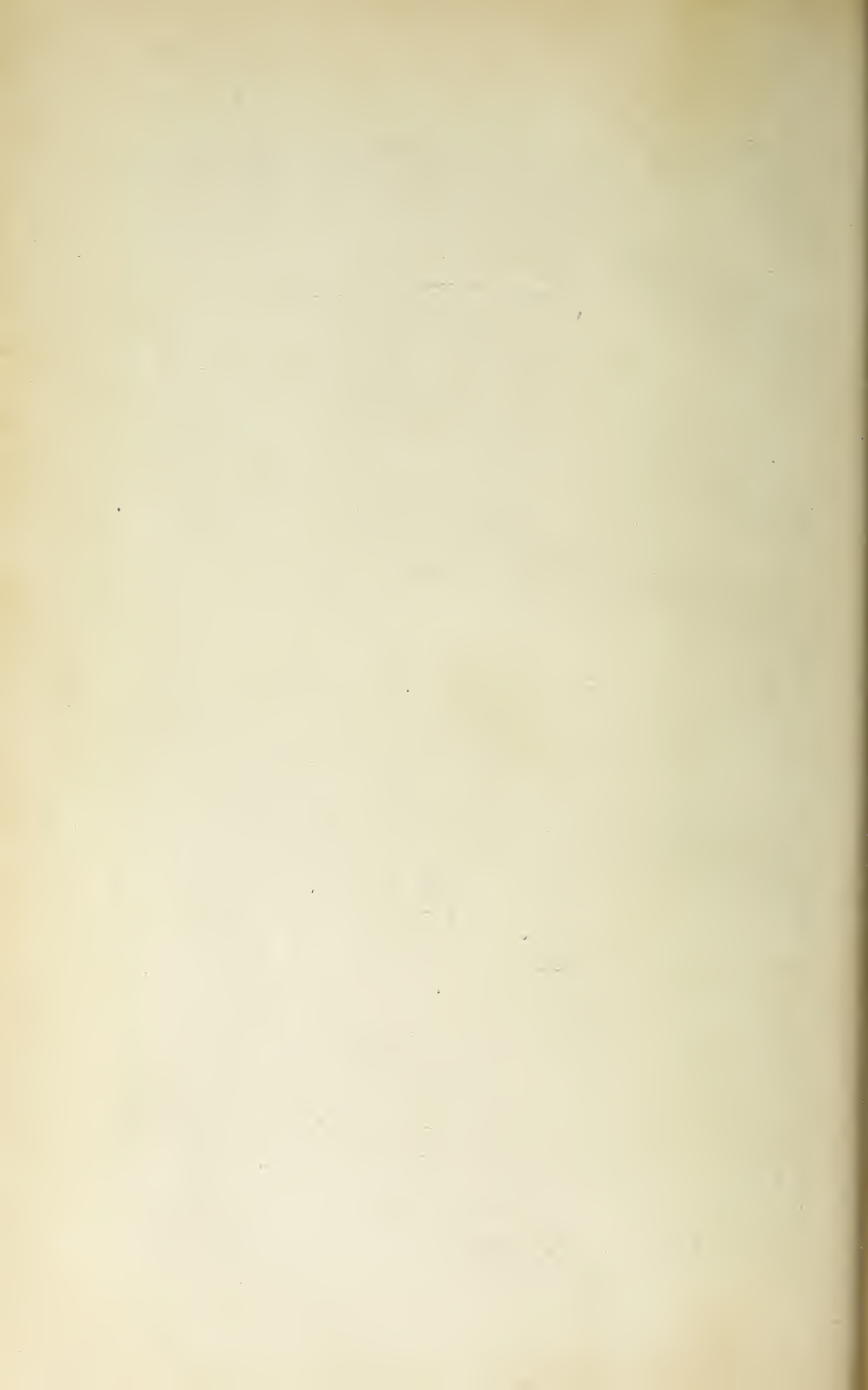
Defeat of the Fire-Fiend.





IMPERIAL COURT.





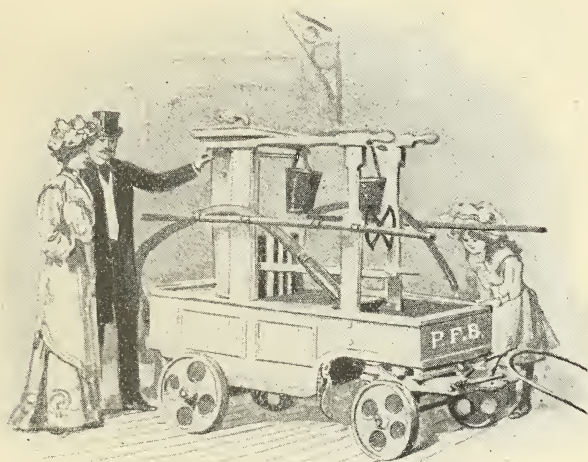
Upon leaving the Empress Theatre a restful and enjoyable hour may be passed in the Galleries of the

## HISTORIC AND ART LOAN COLLECTION

around the Imperial Court. The priceless relics, paintings, old prints and engravings assembled here from all parts of the United Kingdom and Abroad will be found of absorbing interest. The last mementos of those

### Heroes of Peace

—brave Firemen who have given their lives to save women and children; the antiquated fire-engines and other fire-fighting appliances showing the wrinkles of Centuries; the primitive methods of our forefathers for "Fighting the Flames," and



hundreds of other evidences of thrilling stories in bygone days may be inspected here, while for full explanatory details of each Page 63 can be turned to.

In the magnificent

## IMPERIAL COURT

close at hand Afternoon Tea suggests itself amid the coolness of

the Plashing Fountains and the fragrance of the surrounding Flower Gardens. From the Band Kiosk flow the sweet strains of melodious selections, hundreds of listeners occupy the encircling chairs, while animated parties around the tiny tables drink their tea and partake of light refreshments with everything at their command conducive to pleasure and comfort.

Having refreshed both mind and body a gentle stroll beyond the Court brings you into

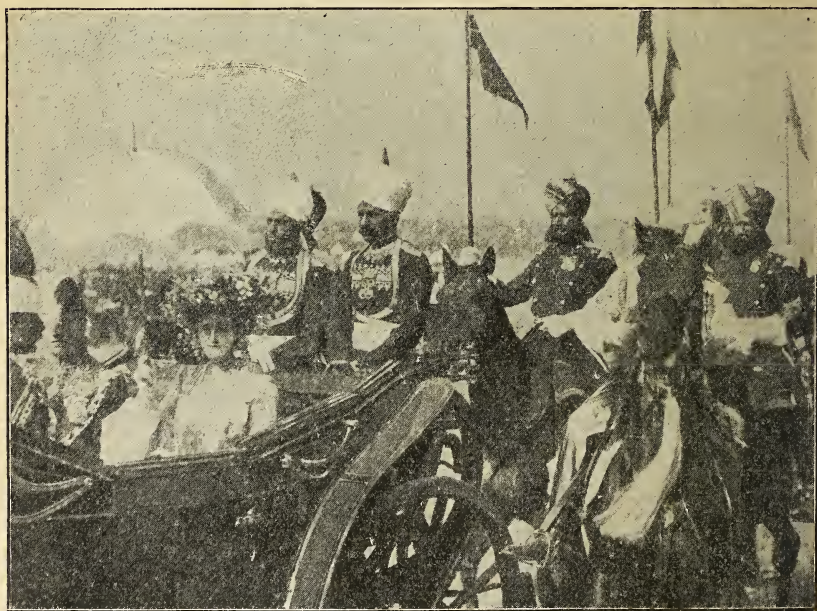
### Elysia, the Garden of Variety.

Its numberless attractions can only be briefly referred to here. In the garlanded

### SUMMER THEATRE

on the left the Biograph will be found installed, rapidly displaying to its audience sensational or picturesque living records

#### THE BIOGRAPH.



DELHI DURBAR.

of exciting feats or memorable events of the past or present. Directly behind it the





ELYSIA, THE GARDEN OF VARIETY.

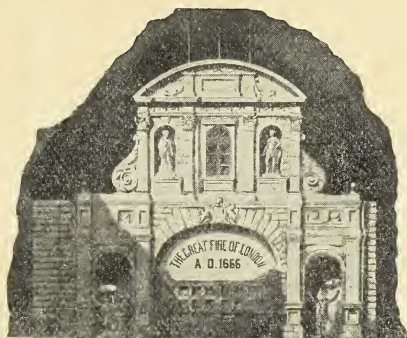


## GREAT FIRE OF LONDON,

that burned for four days and destroyed the City, is shown blazing at its height by night. This imposing display is entered through an exact reproduction of

### Old Temple Bar

rising nearly fifty feet from the ground and bearing on its arch iron caskets in which the heads of traitors were hung.



OLD TEMPLE BAR.

### The Laughable Upside-Down Mansion

next momentarily bewilders you, for it stands on its roof and its ground floor is high up in the air. Like a midnight burglar you enter through the roof, passing a cat placidly crouched upside-down on the tiles, and go from ceiling to ceiling—not floor to floor—of extraordinary topsy-turviness.

The beautiful fantasy of the

### Spider's Web

is but a few yards away, and attaining as it does the acme of decorative art and delusion should not be overlooked.

Directly in front of the

### Mirrors of Mystery

is a bridge-entrance into the



## WESTERN GARDENS,

but there is still much to see in Elysia, so we shall present ourselves before the whimsical Mirrors and laugh at the startling reflections they cast upon us. In a moment they show you standing on your head, or as stout as a balloon, or as thin as a crane, and the results are absurdly amusing.

A ride on the steeds of the

### Manège Mécanique

is an exhilarating novelty, as by clever and powerful clockwork the riders are borne in graceful curves and evolutions past one another with all the pleasant sensations of easily cantering on soft turf and smoothly leaping hedges and ditches.

By night a spiral girdle of hundreds of electric lights illuminates a tower 100 feet high, where the glories of

## THE GLACIER GLIDE

may be enjoyed from valley to peak by merely standing on the Moving Way. This wonderful contrivance raises you gradually through scenes of the most impressive mountain beauty. Gorges, châteaux, and waterfalls rise and fall before the eyes in a veritable wonderland of superb splendour.

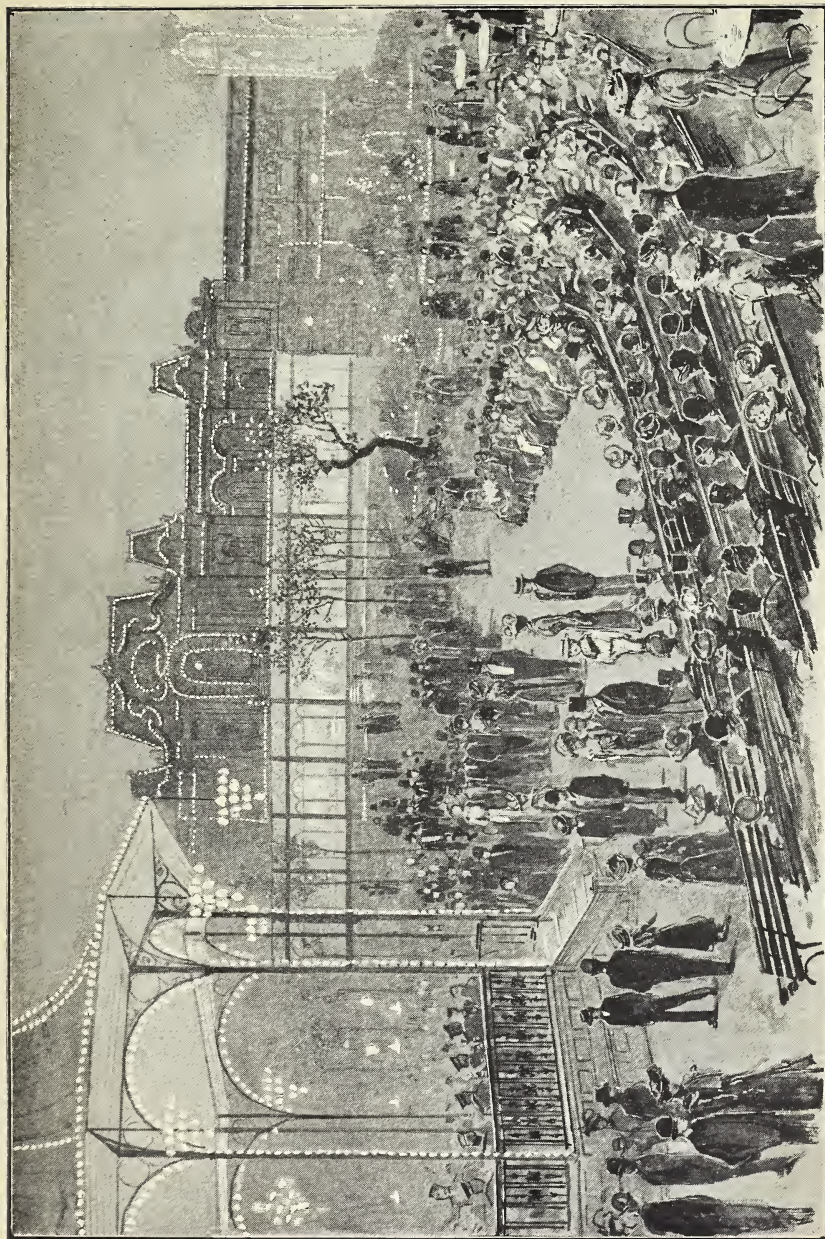
Coming down from the mountain tops the novel and interesting entertainment of the

### Submarine Divers

provides something very much out of the ordinary for sightseers. The whole conditions under which divers work on the ocean bed are reproduced here in a large tank of glass, allowing the audience to witness every movement of the trained experts.

With the Briton's proud motto of "What we have, we'll keep" ever before us a few shots at the

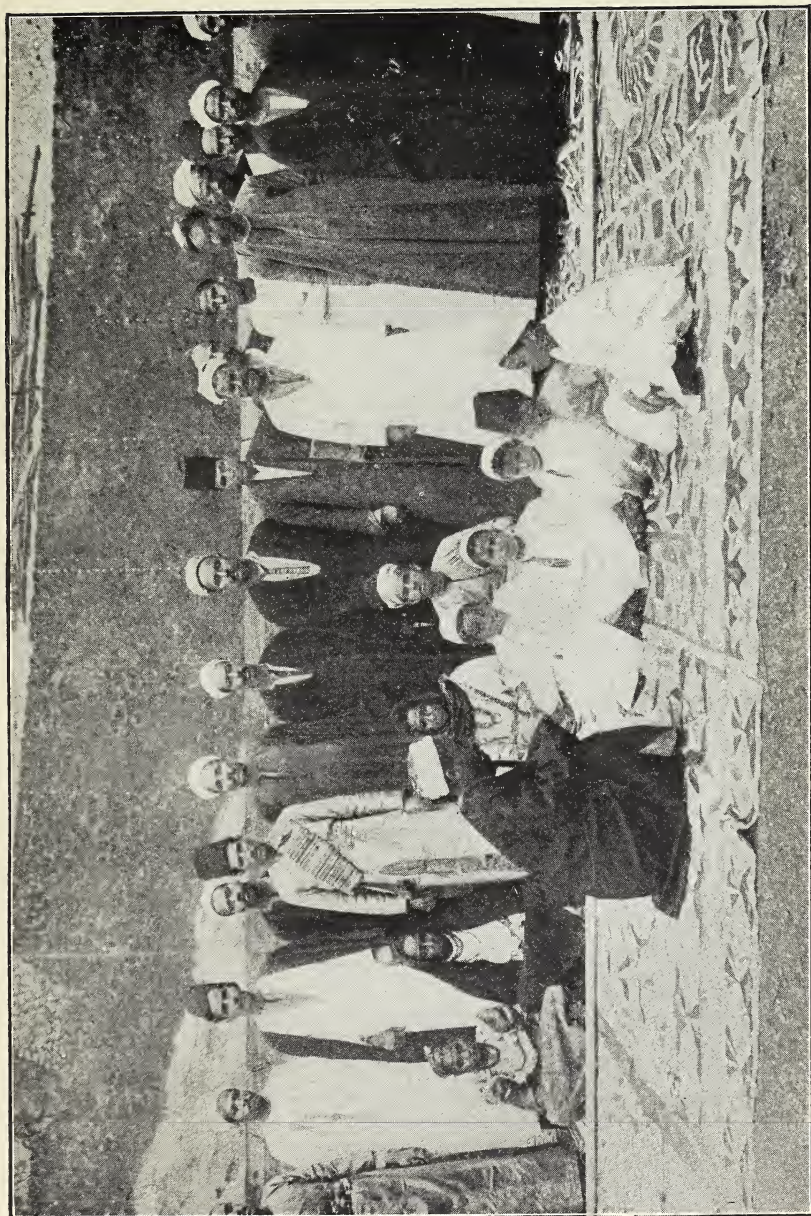
## SOMALI RIFLE RANGE



WESTERN GARDENS, WITH QUADRANT.









become a necessity. The Rifle Range has been designed on the latest and most up-to-date lines with both moving and fixed targets of animal and human figures, and small bull's-eyes. The rifles are light, easily handled by ladies, shoot accurately, and do not "kick." The scenic background suggests you are on "active service" with the latest British expedition in Africa.

Now that you stand in the shadow of

## THE GIGANTIC WHEEL

it is easy to understand why it towers over the metropolis for a score of miles. From one of its palatial cars when at the Summit of the Wheel the bird's-eye-view reaches so far as the purple hills of Surrey and the regal outlines of Windsor Castle, while at one's feet apparently distinctly lies all London.

There is no more striking feature in the present Exhibition than that presented by

## ASSOUAN:

### AN ARAB VILLAGE ON THE NILE

directly to the side of the Wheel. It will be found described at full length on Page 42, but it cannot be too strongly impressed upon the visitor that this faithful portrayal of life on the Upper Nile cannot be depicted in mere words. The whole village, its Arabs, fellaheens, *sakieks*, gazelles, camels, buffaloes, date-tree bridges, palm-trees, etc., have been brought *en masse* direct from Egypt by permission of the authorities. It is no exaggeration to say that the village depicts the modes and manners of living and working that were old in the

### Days of Moses,

and that, moreover, are fast disappearing before the advance of British Progress up the Sacred Nile.



Now an opportunity presents itself of visiting the

### Caricature Photo Studio,

and having yourself "taken" in any one of fifty poses for presentation to your friends. The results are always certain to provoke a good laugh; and there is no waiting, as the finished pictures are handed to you before leaving.

At this spot there is an inclined bridge-way which brings you on to the

### WESTERN GARDENS,

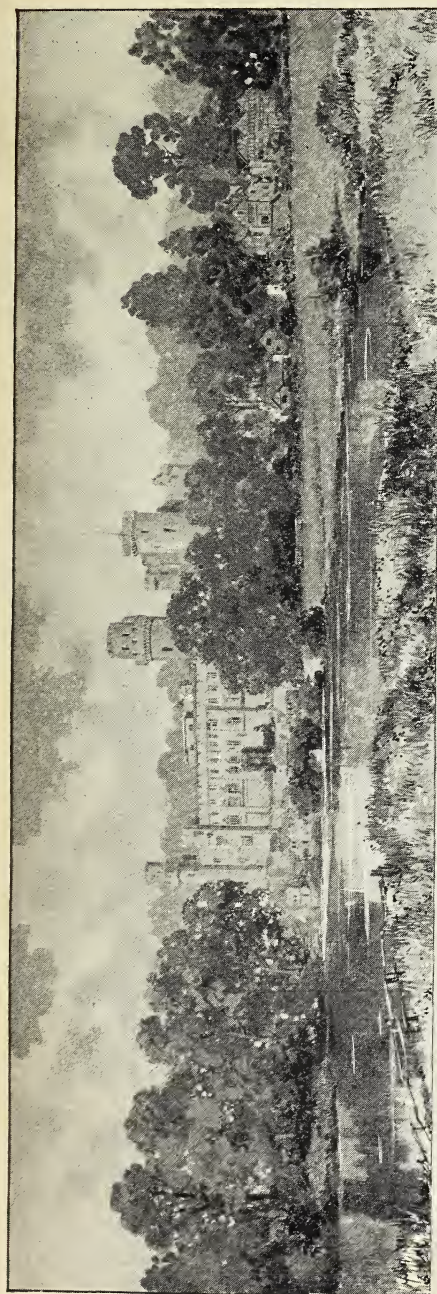
perhaps the most attractive resort in the Exhibition Grounds. It certainly seems that the most fitting way to signalise your entrance into this Eden of grassy lawns, flowery slopes, and sparkling music would be to indulge in a

### Musical Ride.

This is immediately provided for you and a score of beautiful ponies and splendidly-trained horses are at your selection to take part in a

### Pas de Chevaux,

under the direction of the experienced Ringmaster. The mounts are so well trained and the music from the capital orchestra so inspiring that one can enter with zest and with no knowledge of horsemanship into an equine waltz.



1—WARWICK CASTLE. 2—BOTHWELL CASTLE.





You will not enjoy your drive on the

## Exhilarating Switchback

any the less for your mount. The popularity of this Railway of Ups and Downs never dwindles, and the passengers return from their all-too-short journey with a glow in their cheeks and a light in their eyes as convincing testimonies of the tonic effects of the lightning passage from height to hollow in the open air.

In the gravity-dispelling ride there is no time to enjoy the scenery which forms so picturesque a background, whereon the artist has given a most effective reproduction of the far-famed

## WARWICK CASTLE ON THE AVON.

It stands on the site of the Castle erected by Alfred the Great's daughter, and is one of the very few feudal residences still inhabited.

Across the lawns and flower-beds on the opposite side of the Gardens

## BOTHWELL CASTLE

forms another triumph of the genius of Mr. Richard Douglass. This famous structure, so renowned in history, stands out in imposing perspective, and delights the beholder with its regal magnificence of proportion.

Both these mammoth pictures may be fairly described as scenic masterpieces.

A long stretch of green lawn, set with lounge chairs and tiny tables, fronts the trellis alcoves of the

## OLD WELCOME CLUB,

which is reserved for members and their friends. Here the fortunate ones may dine or lunch with all the comfort and enjoyment of the best Cafés and Restaurants of the West End; or seated on the Lawn be entertained by the selections of a

### High-class Band

located in the Music Pavilion in the centre of the public promenade.

The façade of a Central Station of the

## LONDON SALVAGE CORPS

attracts attention, and within the spacious, open gates will be seen the carts and complete equipment ready for active service at an instant's notice. Throughout the day there are occasional drills and turn-outs of a practical nature, and this side of fire-fighting will come fresh entirely to many people.

Immediately alongside is the high-class entertainment of

## EUGEN'S GRAND CONTINENTAL CIRCUS,

which makes its first appearance in England with a brilliant galaxy of Equestrians, Athletes, and Acrobats. Variety and Humorous Acts are interspersed between the daring feats of the celebrated Eugen troupe of acrobats, dashing deeds of horsemanship, highly-educated animals, and a host of entertaining novelties never displayed before in this country.

The visitors' attention is next claimed by the Dramatic Show of the

## SURVIVORS OF MARTINIQUE,

a spectacle that recalls with realistic impressiveness the

### Volcanic Eruption of Mont Pelee

and the complete

### Destruction of St. Pierre,

with the loss of 30,000 lives, in May, 1902.

The suddenness with which this cruel disaster happened sent a thrill throughout the civilised world. From the handful saved out of the inhabitants of this once-prosperous City in the West



Indies, twenty native men, women and children appear, and indulge with light-hearted gaiety in the festivities of a Creole Wedding, until suddenly the heavens darken, Mont Pelée hurls forth its torrents of devastating lava, showers of fiery ashes fall like tropic rain, and amid the shrieks of the afflicted

### Death and Desolation

descend upon the scene.

Noting that the

North End Road Entrance

is at this point, the

QUADRANT RESTAURANT

in its handsome



## Case of Crystal

is passed, and the steps to the Covered Arcade ascended. Here on either hand a long array of

## Depots of Sale And Minor Features of Entertainment

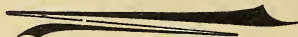
display themselves, and make a pleasant accompaniment to the stroller until he once more reaches

## IMPERIAL COURT,

and his somewhat hasty tour of

## EARL'S COURT

is concluded.



## THE LONDON SALVAGE CORPS STATION.

Opposite the Old Welcome Club, in close proximity to the North End Road entrance, is a fully-equipped station of the London Salvage Corps, an organisation commanded by Lieut.-Colonel Fox, and supported by the great insurance companies, which do the majority of the insurance work of the world.

This station is not a toy station, but is manned, fully equipped, ready to turn out to any fire in the vicinity. The salvage trap stands ready, the horses facing the doors just behind the engine, and on either side are the watch-rooms occupied by those who man the appliances. The station is in direct communication with the headquarters of the service at Watling Street, and also with the four other stations distributed in different parts of the metropolis. The duties of this corps consist of the protection of property from fire—and water—damage, in a word, everything that relates to the word salvage. Apart from these specific duties, it is the proud position of this organisation to be able to say that many of its members have done splendid deeds in the saving of life from fire, and also in the active hindrance of the spread of fire in London.

There will be a daily turn-out of this station at a regulation practice, and the station also turns out to fires on the ordinary rota.

# Some Entertainments of Earl's Court.

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## "FIGHTING THE FLAMES"

*(For Full Description and Illustrations see Official Libretto.)*

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The Grand Dramatic and Sensational Feature  
OF  
Earl's Court Exhibition, 1903.

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Within the spacious arena of the commodious Empress Theatre will be given every afternoon and evening throughout the present Season the

**SUPERB AND REALISTIC REPRESENTATION**

OF

## "Fighting the Flames"

carried out on lines of the most extravagant magnificence and with the most accurate attention to every detail of a genuine, extensive conflagration in which life and property are saved by the skill and daring of the Fire Brigades. The moderate charges for admission to view this

**Unsurpassed and Thrilling Production**

ensures that it shall be witnessed by every visitor to the Exhibition as displaying with vivid portrayal a big fire breaking out in a crowded street at night, from the first alarm to the final rescues and extinction of the flames.

The great length of one side of the Theatre is occupied by a large thoroughfare in any big town. Handsome and imposing buildings rise several storeys before the audience. Two converging streets cut the main street at right angles, and it is the large mass of buildings between these two that is doomed for destruction.

Meanwhile a procession representing many centuries of Fire-fighters, with their particular gear and appliances, enters numbering some hundreds, and marches round the arena. The crude apparatus and untrained men who sought feebly to check the ravages of Fire in the

## Days of Ancient Rome

lead the way and are followed by other Epochs with giant squirts, and bellows-engines, down to the skilled Firemen of the Twentieth Century, with all the most modern engines and apparatus that Advanced Science and Discovery have designed. As a picturesque and educational spectacle alone these faithful reproductions of old times placed alongside present day men and methods form a valuable entertainment. After the

## PROCESSION OF ENTRY

each Epoch will give an example of its own particular manner of

## Fighting the Flames.

Though some of these will be considered almost laughable in their amateurishness, yet they will not be found without interest.

An up-to-date Firemen's Tournament, showing the use of the latest favourite appliances in various large Centres of the World will follow and include the scaling of lofty buildings with the aid of the Pompier ladders, racing with Steam and Electric Fire-Engines, Firemen's Contests and Competitions, &c. Replete with exciting incidents and finishes, the various items on this Programme can be relied upon to provoke a healthy appetite for



## The Great Fire Feature.

Hundreds of pedestrians of all sorts and classes, such as will be seen any business day thronging the streets of a large town, hurry by on the pavements. The humours of the crowd and the antics of the Street-Arabs add to the fidelity of the representation, and everything combines to suggest busy prosperity and absence of peril. Suddenly a thread of smoke shoots from a window and is followed by a stream of flame rapidly increasing in volume and fierceness.

### FIRE! FIRE!! FIRE!!!

rings out the blood-curdling shout, a policeman dashes for the Alarm-Post on the pavement-kerb, smashes the glass, and presses the indicator. Coatless men and hatless women rush from the now blazing building; ready aid from civilians helps others out of windows; then a rattle and a roar are heard in the distance, and with a

### Cheering "Hi! Hi! Hi!"

the glittering helmets and burly forms of the

### Agile Fire-Fighters

swing into view behind their foaming steeds. Sharp and clear the Superintendent's commands ring out, and with lightning-like precision each fireman falls into his place and smartly obeys. A squad of police have arrived and are putting back the crowd to ensure space for the brigade's efforts. In a few seconds hoses play on the maddened, leaping flames; the Jumping-Sheet is being held by sturdy arms to catch those whom the flames have cut off in the topmost storeys; the Fire-escapes are doing good work, and the whole process of

### FIREMEN FIGHTING TO SAVE

is elaborately depicted before your eyes.

The flames rise higher and higher, licking the doomed building inside and out in voracious glee, when suddenly the

figure of a woman holding a child appears on the highest parapet. A groan goes up from the excited throng. Loud cheers follow



as a daring Fireman dashes up a tall ladder to the rescue. The suspense is thrilling, for it seems as if he must be too late to save. The hero disappears in a volume of smoke and flame. When next he is seen he has the woman swooning on his shoulder, though still clinging to her child. The ready hands of the Fireman's comrades aid his descent, and the curtain falls as rescued and rescuer reach safety amid the

Cheers and Plaudits of all.



**NOT IMITATION,  
BUT STUPENDOUS REALISM.**

## The Directors of the London Exhibitions, Limited,

acknowledge their indebtedness to the Firms mentioned below:—

The Steam Fire Engines used for **"Fighting the Flames"** in the **Empress Theatre** have been manufactured and supplied by **MERRYWEATHER & SONS, LTD.**, Greenwich Road, London, S.E., Fire Engine and Fire Appliance Makers, and by **SHAND, MASON & Co.**, 75, Upper Ground Street, Blackfriars Road, London, S.E., Fire Engine and Fire Appliance Makers.

Both these well-known firms have imposing displays of exhibits in the Imperial Gardens.

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All the hose (with gun-metal couplings) used in the realistic representation of **"Fighting the Flames"** was made and supplied by the **DOMINION BELTING AND MILL FURNISHING Co.**, of 12, Colonial Avenue, Minories, E.C. It is known as the "Brigade" brand, and is genuine hand woven. It is guaranteed to stand a pressure of 500 lbs. to the square inch, and is claimed to be the strongest canvas hose that is made.

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The Fire-Escapes utilised so effectually in the **Empress Theatre** for rescuing the people in **"Fighting the Flames,"** were made by **BAYLEY'S LIMITED**, Wagon Builders and Fire Appliance Manufacturers, Newington Causeway, Southwark, London, S.E. The firm's exhibit is displayed in the Imperial Gardens.

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The daring leaps for life in **"Fighting the Flames,"** **Empress Theatre**, are made into a Jumping Sheet devised and constructed by **JOHN SMITH & Co.**, Tarpaulin Manufacturers, 290, Cable Street, London, E.

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**THE NATIONAL TELEPHONE COMPANY** have Call Offices at their Exhibit in the Queen's Palace, and on the Western Arcade, near the Old Welcome Club, which can be used by the Public on payment of 2d.

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Greenwich Time is indicated in various parts of the Grounds and Buildings on clocks supplied by the Synchronome Co., of 32, Clerkenwell Road, London, E.C.



# ASSOUAN :

## An Arab Village on the Nile.

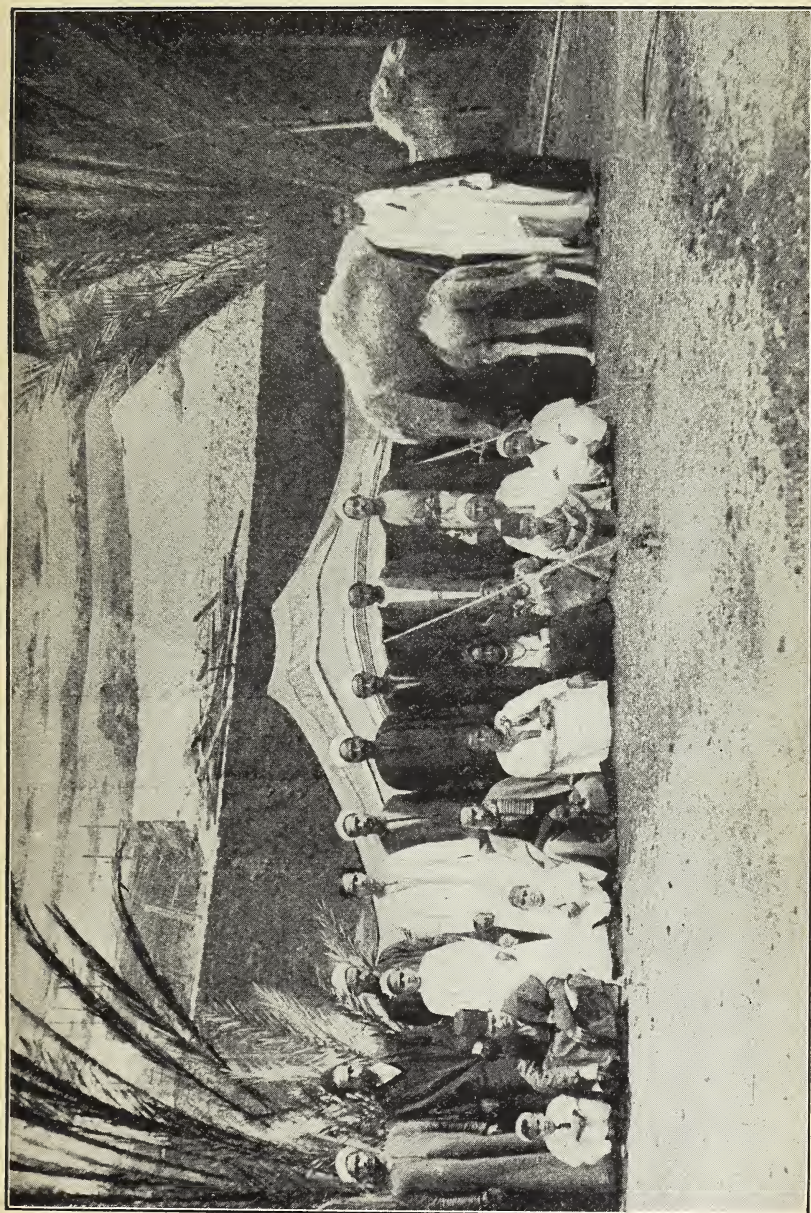
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Lift up the curtain and enter the historic Land of Egypt. Like a dim memory London lies far away with its rattle of cab and 'bus and ceaseless hum of busy City life. You stand on the banks of the Sacred Nile in the heart of an Arab village hundreds of miles from the Delta.

Drink your fill of the interesting sights around you ; watch the primitive means and manner of tilling the soil and garnering the products, the rude wells and implements that were old in the days of Moses ; see the potter's deft fingers fashioning from the river clay the water-bowls and other vessels which the furnace blast of the desert hardens to the consistency of the toughest delf ; and do not overlook the turner's magical skill with his rough lathe.

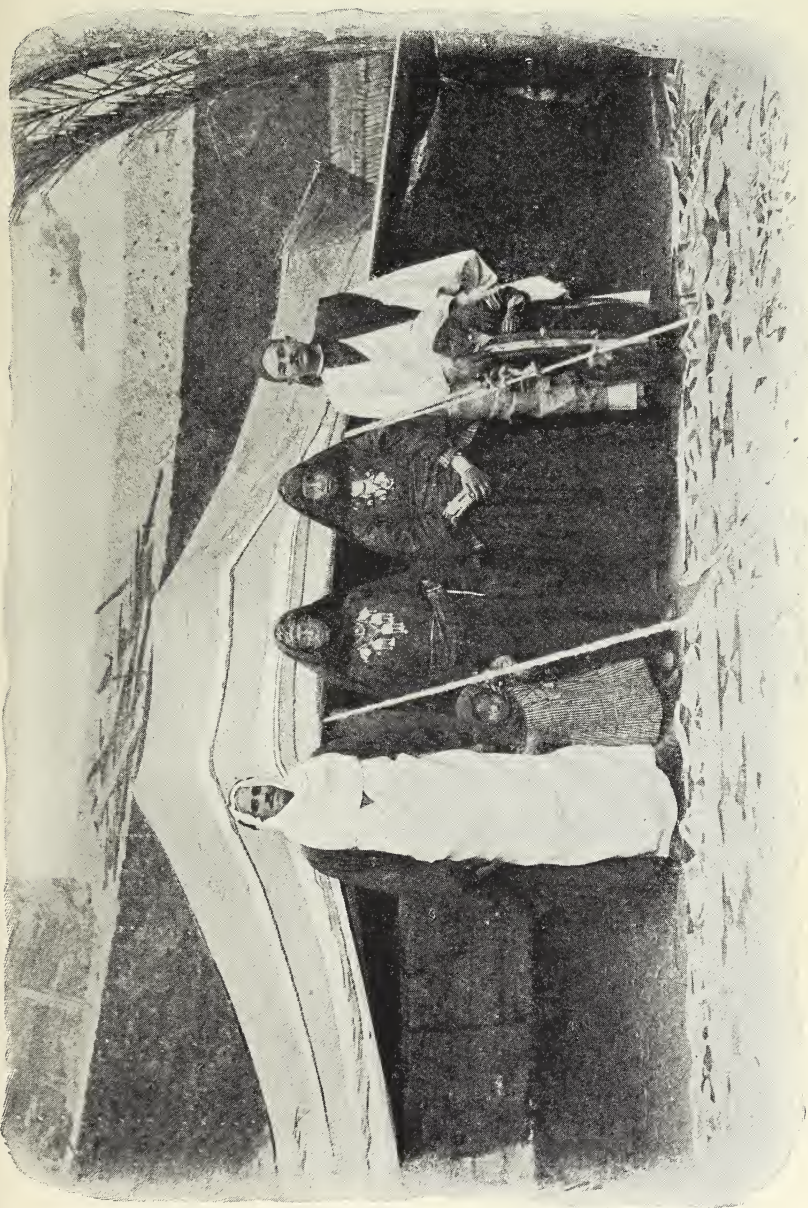
The baker turns out loaves identical in shape to those mentioned in the parable ; the glass-blower indulges his fantastic fancies in airy bulbs, fragile films, and curving tendrils of liquid glass ; the jeweller revels in the barbaric ornateness of Oriental gems richly set ; the embroiderer with bead and braid and lace of gold traces graceful patterns on zouave jackets edged with glittering spheres ; while the microscopic eye of the engraver guides his cutting style in almost imperishable caligraphy ; and the not-to-be-forgotten shoemaker shields the feet of the Sons and Daughters of the Desert from the ever-burning sands.

Here is indeed symbolised in actual breathing and working life a primitive Egyptian village of the Upper Nile, a spectacle that science and civilisation under the direction of our Government is, fortunately for the fellaheen and his kin, fast removing beyond the sight of man. The British blood that flowed and the British prowess and endurance that were displayed in the several campaigns are fast bearing their fruit, and the hand of the conqueror is now employed in bringing education, up-to-date implements and general progress to the conquered, thus ensuring











perennially an inexhaustible supply of water for their crops, herds, and people.

Look you round before it is too late at all that is typical—and has been for centuries—of a village on the Nile. The “fellahs” (farm-labourers) busily working in the fields or watching the rotating wells (Sakieh), driven by buffaloes or camels, to irrigate thus crudely their crops and vegetation. A buffalo drags a movable scythe and cuts hay, a baby camel enjoys the irresponsibilities of youth, gazelles with watchful “soft-brown eyes” browse gently among the goats and sheep indigenous to the country, and the Pharaohs, pelicans, and flamingoes skilfully skirt the proximity of the cunning-eyed Arab dog.

The droning chant of many children’s voices proclaims an Arab school in full swing under a solemn, brown-skinned teacher. Toil is nearly over, and the fellaheens rest in their huts of sun-burnt brick while the Arabs seek their tents. Some of the younger natives engage one another with their “nabbouts” (long sticks), and recall Robin Hood and the days of the quarterstaff. This species of contest, in which the combatants show extraordinary skill, has never been seen before in Europe. An acrobat is indulging in daring feats; a conjuror turns his eyes to gold by adroitly slipping cups of that metal under his eyelids, and otherwise mystifies his audience; meanwhile Arab musicians break forth into the weird, mesmeric melodies that scent of oases and refreshing date-palms or ring out the glories of limitless freedom and a matchless steed.

The shops framed in “moucharabieh,” i.e., wood turned in Egyptian style, lit up by their quaint Mosque lanterns, are scenes of the bargainings so dear to the Oriental mind. Across the bridges of date-tree logs over the “Nile” wander scores of interesting types commingled with the visitors; and over all look from the surrounding horizon the glaze and mirage of the desert silhouetting the mysterious Pyramids and the ever-dominant Sphinx.

Finally, this whole village of Assouan, its vegetation, animal, and human occupants, has been brought direct from Egypt under the special authorisation of the Sirdar and his Government, for the entertainment of the visitors at Earl’s Court.



# THE BIOGRAPH.

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"Most magnificent development of the living photograph we have yet seen," said a leading London newspaper in discussing the

## Biograph's Animated Pictures.

Within the beautiful trellis and fligree walls—decked with verdant creepers and bright blossoms—of the

## SUMMER THEATRE

in ELYSIA, may be seen a perfected and illustrated record of the

## Important Events of the Day,

interleaved with humorous, magical, and impressive subjects reproduced with life-like animation.

THE BIOGRAPH.



DELHI DURBAR.

The smartest Fire Brigades are shown at work; the fleetest Horses, fastest Yachts, and quickest Motor-Cars in the World, in Racing Competitions; while Soldiers manœuvring, Battleships firing their big guns, Spanish Bull-Fights, Royalties and Celebrities, Express Trains dashing through beautiful and picturesque scenery, Celebrated Dancers, Acrobats and Conjurors, Air-Ships, Wireless-Telegraphy, &c., will be included among the endless wonders on view throughout the day and evening.

Sport will not be neglected, and Record Feats in various parts of the World will be reproduced, Great Cricket and Football Matches, Marvellous Swimming and Diving, Jumping, and Pedestrianism, &c.

Some idea of the Biograph's

### High Standing and Popularity

may be gained from the fact that it has made the World's Record for its length of runs in the Leading Capitals. Just a few instances:—

Palace Theatre, London.— $5\frac{3}{4}$  years.

Winter Gardens, Berlin.—5 years.

Casino and Folies Bergere, Paris.—2 years.

Keith's Music Halls, New York.—Over 7 years.

A unique innovation will be put into working during the Exhibition. At various times and places, which will be duly advertised, the Biograph will take Living-Pictures of Visitors to Earl's Court, and reproduce the same in the Summer Theatre that very evening.

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## MARTINIQUE:

### The Modern Pompeii.

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The frightful disaster that fell upon the French Island of Martinique in the West Indies, on the 8th of May, 1902, is still fresh in the public memory. By many experienced travellers and students of history it was likened, for the deadly swiftness and



awesome accompaniments of terror with which it came upon the unfortunate inhabitants of the City of St. Pierre, to the celebrated obliteration of Pompeii under the scalding streams and showers of Vesuvius.

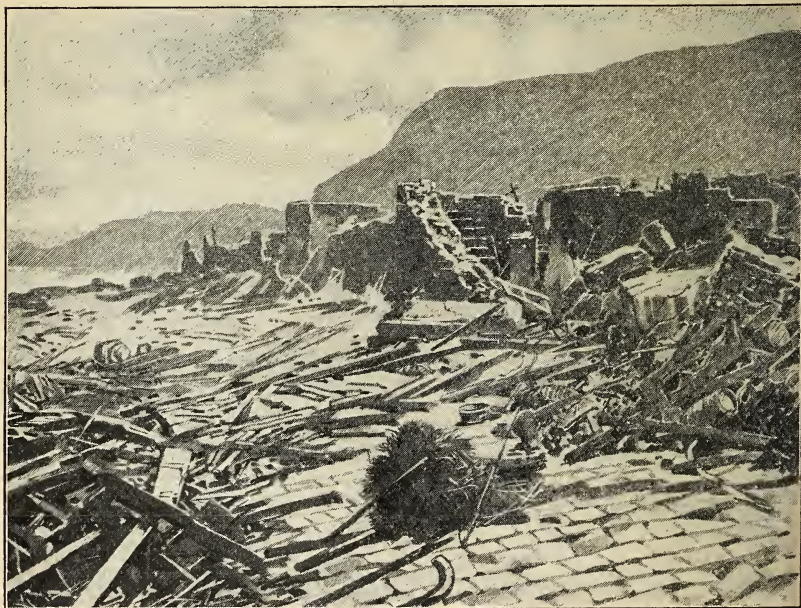
From the handful who escaped the streamlets of molten lava, the choking blasts of sulphur-laden air, and the scorching hail of white-hot embers that slew 3,000 men, women, and children,

## Twenty Survivors of St. Pierre

will appear, and reproduce their peaceful and happily-contented home-life prior to the dread dénouement. These light-hearted natives will render their own songs, and trip through their graceful dances, having for their excuse the joyful celebrations and festivities inseparable from

## A CREOLE WEDDING.

When the curtain rises, the elaborate scenery discloses a magnificent view of the once-charming and thriving city of St. Pierre. Looming ominously in the background is the smoking





volcanic crest of Mount Pelée, rapidly assembling its forces of destruction. Brightly the Marriage Fête continues, the real life, manners, and customs of the Natives of Martinique are disclosed in entertaining glimpses, until suddenly the

### Gloom of the Tomb

falls upon the joyous party. The volcano bursts into lurid flame, and jets forth a mighty volume of liquid fire, the thunder rolls and racks the heavens, the lightning splits the horizon in successive flashes, and the panic-stricken Natives rush, screaming in blind terror, seeking means of escape.

The concluding Dramatic Tableau shows St. Pierre burned and buried in a pall of smoking ashes, and the dead posed in the postures they had occupied when their end came quick upon them.

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## THE GREAT FIRE OF LONDON.

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A stately relic of the London of the Past in the shape of

### OLD TEMPLE BAR

fittingly forms the entrance to one of the most striking and vividly realistic productions of latter-day Science and Art. Few of the present generation have ever seen the famous Temple Bar, for so long one of the City's Western Gates. It is now reposing stolidly in rusticity as the entrance to an English gentleman's home and grounds at Theobalds, Waltham Cross. The model that towers over the beholder is, however, a faithful reproduction down to the smallest detail, with but one exception, that the iron baskets on its apex do *not* contain the shrivelled heads of treasonable malefactors. It is indeed a worthy portal to the

marvellous portrayal of that colossal holocaust that for four days raged throughout the

## Greatest City in the World

and left it almost in its entirety a heap of powdered ashes and blackened ruins. London the Mighty had been razed to the very ground, and grass and nettles sprung from the prolific débris, while owls haunted and hooted over the desolation.

The visitor enters under Temple Bar and finds himself standing on an arch of London Bridge, towards the Southwark side, with the Thames beneath him. Spread before him for an area of four miles lies the whole of the blazing City. The terrible conflagration which started so insignificantly in Pudding Lane, near Cannon Street, in the first hour of Sunday morning, September 2nd, 1666, is depicted at its height. The prevailing dry heat had turned the old wooden buildings to tinder, and though a furious East wind was raging, few realised that one of the most calamitous conflagrations since the world began had started on its work of devastation.

Accurately and with awesome spectacular effects, so cleverly contrived that it is hard to tell whether the ancient City

## Given over to the Fire-Fiend

does not lie within one's grasp, is the terrible scene of panic and the greedy flames laid before your eyes. The river crammed with boats and barges and other craft laden to the water's edge with men, women, and children and the few household possessions they could snatch with their lives from the maw of the omnivorous devourer. You see the frail crafts set on fire, even in this haven of supposed safety, by fiery flakes borne on the turbulent breeze. The wharves and buildings adjacent are wreathed in flames, while overhead the heavy volumes of black and yellow smoke have massed themselves in an ominous funereal pall.

Billingsgate Ward has long been reduced to ashes; Cannon Street is fast being levelled to the ground; the flames are hungrily licking up both sides of Gracechurch Street; the stately buildings of Lombard and part of Fenchurch Streets are tumbling shattered

into one huge bonfire; while in Cornhill the destroyer marches along on both sides "with a ravenous roar." The fierce breeze speeds lighted fragments like showers of stars, with the effect that from widely divergent points conflagrations break out and hasten to converge on the main army of destruction. Threadneedle Street, Walbrook, Watling Street, from all sides they come, and Cheapside, Newgate Street, Ludgate Hill, Fleet Street are practically swept out of existence. The

## Molten Lead Pours and Splashes

from the roof of St. Paul's Cathedral, its stout stone walls peel like putty, and it disappears, to make room for the impressive masterpiece of Sir Christopher Wren's which stands in its ashes.

The terror-stricken crowds thronging the streets in search of a place of safety for themselves and goods, depict the good and bad phases of human nature at a time when men are unmanned and women almost unsexed by the hideous horror of a frightful death. Pepys, the famous historian, is shown rescuing a woman, others are helping little children; while thieves and cut-throats, seeking a cruel opportunity, lie in wait for prey. The miser, driven from his hole by the all-seeking flames, is robbed of the hoard he has long gloated over; and the river pirates attack the weak and nerveless on the blood-red water.

This whole unrivalled spectacle is the sole conception and invention of Mr. A. Kotin.



## THE FRANCO-AMERICAN MUSICAL RIDE.

To even those most timid of horses, the prospect of going, without the slightest risk, through graceful evolutions while mounted on a gentle and perfectly-trained horse or pony is undoubtedly most inviting. To the horse-rider and horse-lover it comes as a delightful novelty. The mounts are beautifully broken in and under the guidance of an expert ring-master, and to the



accompaniment of an excellent orchestra they go through artistic manœuvres and sets of lancers at an easy pace. All is accomplished without the least possible risk.

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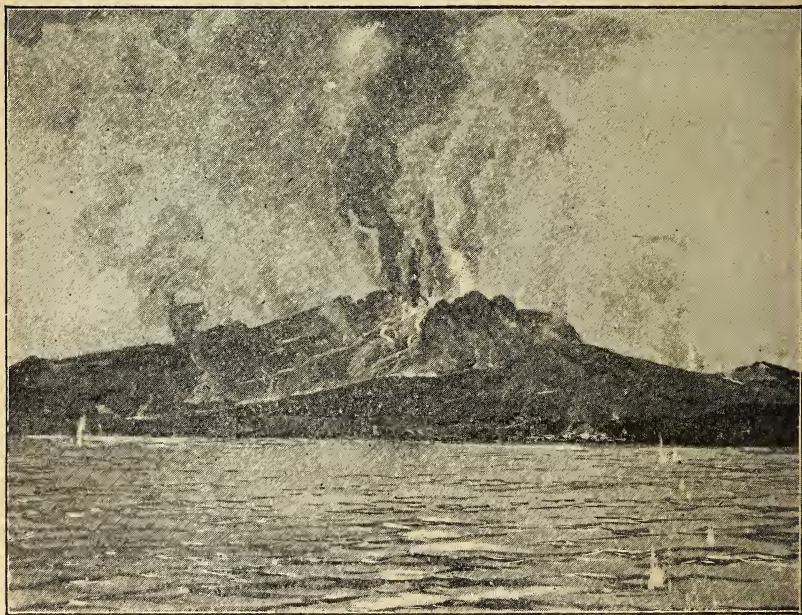
## THE RIVER OF FIERY LAVA.

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A floating tour around the Great Active Volcanoes of the World on a

### Subterranean Molten Stream,

which bubbles and throws off its steaming vapours, suggests daring delights; but may, nevertheless, be accomplished in all the comfort and safety of an easy chair on the Old Welcome Club lawn.



By the

## PALACE OF ELECTRICITY

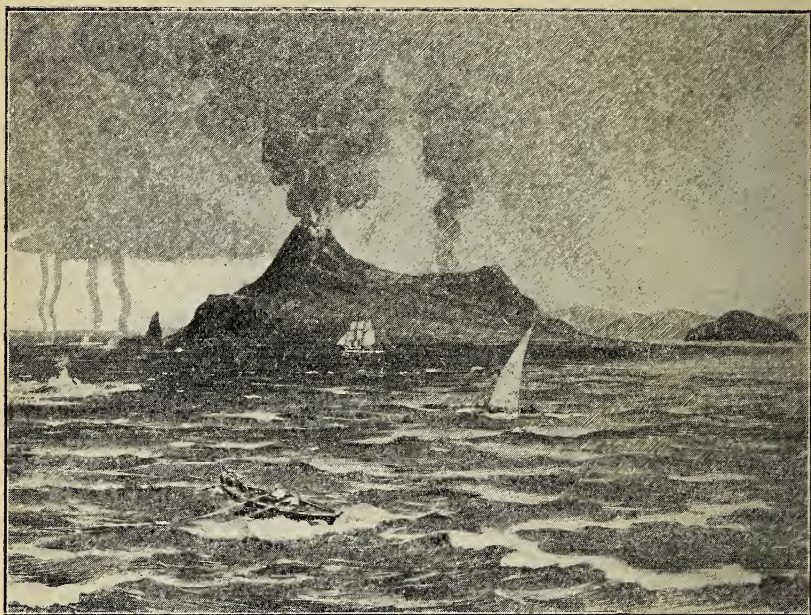


you enter the luxurious craft and softly flow forward on the glittering River of Fiery Lava into the cavernous recesses of

### The Earth's Centre.

On either side as you pass along Famous Volcanoes in active eruption come into view, their craters belching forth steam and





smoke, while down their sides in fierce, frothing streamlets the lava scours its way, eating up the fertile valleys and denuding the forests of their growing timber.

The glowing richness of the

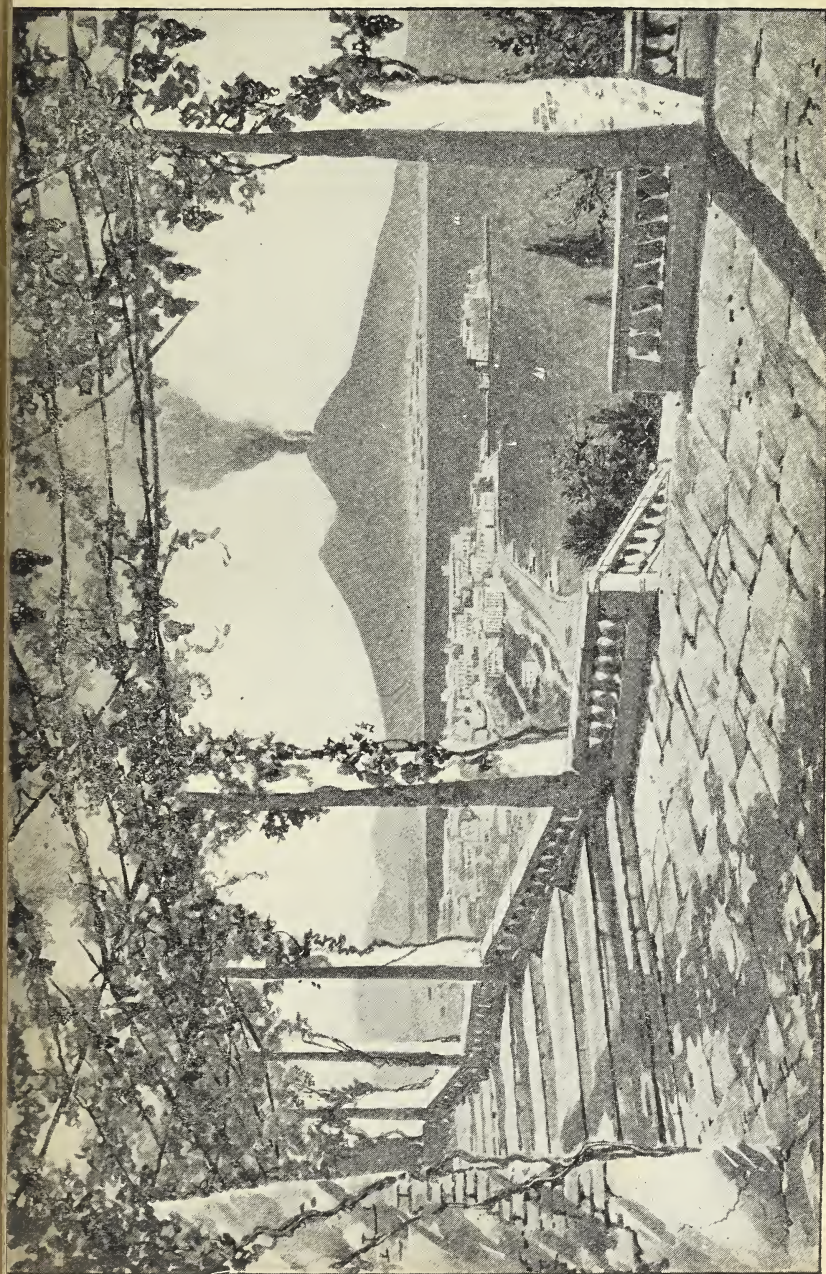
### Beautiful Underground Grottoes,

the iridescence of the varying lights, and the ominous rumblings from the powerful hidden agencies provide sights of thrilling beauty and all the experience of being present at

### Eight First-Class Volcanic Eruptions

without having a hair of your head singed or getting a cinder in the eye.





VESUVIUS.



VOLCANOES DEPICTED.

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The "Soufrière" volcano, in the Isle of St. Vincent, in the Antilles Archipelago. Eruption of sulphurous gases, of a peculiar yellow hue, accompanied by high sea and cyclone.

The "Stromboli" crater, in the Lipari Islands, represented during a period of inactivity. Large clouds of steam are seen rising slowly from the depths of the crater, which indicates that the volcano is but asleep and still menacing.

Mont Pelée (Martinique Island). The view embraces the whole of the St. Pierre harbour; only heaps of ruins can be distinguished, and even these disappear under a thick fall of ashes. In the distance a thin flow of lava runs down the side of the mountain, and dense, reddish smoke fills the sky.

Vesuvius, in Naples (Italy). The view is taken from one of the numerous terraces which look on the Bay of Naples, and from which the whole town can be seen, calm and sunny, at the very foot of the volcano. A little smoke only crowns the top of the crater and marks its position.

Vesuvius during the last eruption. Taken at night from the sea. The immense glow which arises from the volcano is reflected by the calm water of the Mediterranean.

Inside a crater, with the fused lava flowing in a stream of fire.

The Krakatoa Volcano, in the Sound Straits. The volcano is represented during the second phase of eruption, at the time of the formation of the chimney, or eruption cone, a phenomenon which sometimes causes the volcano to increase several hundred metres in height.

The summit of a volcano at the time of the formation of the crater. The force of the gas pressure cracks the sides of the mountain and makes way for the fused lava, which runs like a stream of fire.

View of the "Cotopaxi" eruption, in Ecuador. A flow of incandescent lava runs down from the summit of the mountain, while a shower of fire sets the neighbouring country on fire.



## THE MECHANICAL HORSES

are the engaging novelty provided for the tiniest "tot" or the most nervous of ladies. The monotonous "Merry-go-Round" of youth, though hallowed in memory, has for the adult more or less a hint of *mal de terre*. There is no suggestion, however, of aught but pleasure about the Manège Mécanique. Here are all the delights of a real ride on horseback minus the risks for the timid, though the invigorating feeling of sweeping over soft grassy downs and clearing intervening hedges are convincingly present. The course taken by the mechanical steeds is that of a "true lover's knot," and from the starting point the horses in groups of three move forward in rhythmic curves to right and left and round about, their riders passing and re-passing each other at times so closely at the turns of the course that they may shake hands in mutual congratulation. Variety of motion is ensured by the wonderful mechanism concealed below the platform. This might be compared to the works of Big Ben, the world-famed clock in the Tower of the Houses of Parliament, and looks a chaos of wheels of giant size curbing or urging onward the horses and their riders. The Manège Mécanique, in fact, is a luxurious motor ride, a canter in the Park, and a miniature Steeplechase all in one.



One of the peculiar advantages of

### "UPSIDE-DOWN HOUSE"

is that you have to enter it at the roof and chimneys in order to get to the Hall Door, which, strange to say, is at the top of this peculiar building. Then again the Hall has neither walls, floor, nor ceiling, and all the domestics you see engaged in their usual duties are upside down. But you also find yourself walking with head downwards, a position that helps you considerably to work out

### Problems on the Inverse Ratio.

Fortunately the building is of almost perfect fire-resisting design,

and composed solely of steel and concrete, so there is no possibility of being called upon to save your life by running out quickly on one's head.

Optical illusion is really responsible for all such misconceptions, for there are mirrors on every side so skilfully arranged as to deceive and bewilder the keenest. If there still be any doubt, however, one has only to glance at the upside-down cat on the roof quietly watching day and night for

### Upside-Down Rats

to realise that everything is safe and homely.

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Fresh from America, the Land of the Novel Showman, comes to Earl's Court

### THE SPIDER'S WEB,

a beautiful and entrancing fantasy. A huge web, with many gigantic spiders clinging to the filaments, forms the entrance, and invites you "to step into my parlour," and you can do so readily, for this parlour is one of real pleasure. Through the centre of the meshes mysterious passages lead through a

### City of Spiders

resting on the threshold of their silken chateau. Meanwhile varicoloured lights provide an ever-changing scene, and electric flashes at intervals illuminate the whole surroundings, and disclose the strangest and most attractive of sights.

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A graceful, restful trip through valleys and mountains proves an invigorating change. It is known as

### THE GLACIER GLIDE,

and the bracing air of the Alps fans your cheek—in fancy, though real waterfalls roll their crystal cascades, and genuine Tyrolean warblers fascinate the ear with the mellifluous cadence of their *yodelling* as you gently rise borne on the

## Spiral Moving Way

past dainty chalets, precipitous ravines, and verdant slopes, until the golden-glinted mountain peaks are attained, and the gradual descent begins. It is certainly a most acceptable way of "doing" Mont Blanc, and without the risk of slipping into a crevasse or encountering an obtrusive avalanche.

The central tower, which is engirdled at night with a spiral band of electric lights, has a height of 100 feet, and with its wings shows a breadth of 80 feet.

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## The Flashing Railway of Ups and Downs

never loses its exhilarating fascination for young and old. The double thrill of the lightning plunge apparently into the depths of the earth, to soar the next second almost to the top of the highest mountains, has all the refreshing qualities of a goblet of iced champagne on a summer's day. Though called the Gravity Railway, few ever travel by it without having their gravity pleasantly dissipated.

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## Captain Jewell's Submarine Divers

toil for sunken treasure in the bed of a miniature ocean, provided by a large glass tank filled with water. Clad in copper helmet, waterproof suit of rubber and canvas, and with huge boots heavily weighted with lead, the trained men give representations of how wrecks are searched, vessels, docks, etc., repaired, and valuables recovered from beneath the waters. Their equipment is complete in every detail, and the whole display replete with interest, entertainment, and novelty.

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Those who wish to register the pleasure written on their faces by the gay scene around them are recommended to the



## Caricature Photo Studio,

where in any of fifty comic or mock-heroic poses they may have their pictures taken by day or electric light, and handed to them before they leave. Ye Olde Positive Process, which was in vogue forty years ago, is used, and the results are always amusingly effective.

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### A Bunch of Aquatic Flowers

bears voyagers swiftly over the bosom of the placid Lake, for the fleet of six handsome electric launches bear the names of "Lady Rose," "Lady Violet," "Lady May," "Lady Pansy," "Lady



ON THE LAKE.

Daisy," and "Lady Camellia." Each is fitted with an ingenious and novel gear, in which a simple lever suffices to switch the current on, control the speed, reverse the direction, and steer the launch.

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# . . GUIDE . .

TO THE

## Historical & Art Loan Exhibition.



### THE FIRE LOAN COLLECTION.

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**Quaint Curios, Artistic and Historical Relics, Trophies of  
Triumph, Mementos of Fallen Heroes, etc.**

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Never before has there been assembled in the United Kingdom such an interesting collection of all that belongs to the Past History of Fires and Fire-fighting in the British Isles as that which so amply repays an hour or two spent in the Galleries around the Imperial Court. Old archives have been ransacked; the dust of ages removed from priceless old prints; engines squirts, and other ancient appliances, aged by the centuries they have seen, have been drawn from sequestered retreats; the hallowed relics of those who gave their lives at Duty's call once more rouse our pride of race at the records of their dauntless heroism; while the wreaths and trophies of precious metal tell of the triumph of skill and the honourable reward of unhesitating daring.

The weird ravages of the lightning's stroke are exhibited, and form food for varying emotions. Here, an item for hearty laughter and congratulation; and there, the thrill at a death of fearful suddenness. With pen, pencil, or brush, old artists of varying capabilities, from the mere "penny-plain, twopence-coloured" dauber up to the undoubted Masters of the Palette, have recorded memorable conflagrations, out-of-date appliances, old-time uniforms and head dresses, deeds of daring, and historic disasters. Battered and blackened helmets tell their own tale of the sudden collapse of the building shattered by fire before the fire-fighters could escape; wreaths, shields, cups, and medals vouch for pluck and powers fittingly recognised; dandy uniforms in

rich plush recall the days when fire-extinction was more of a ceremony than a fierce fight; and the whole Loan Collection is a speaking testimony to the advance of modern methods and means.

The cumbersome but picturesque old figures of the fire-engines may fairly first absorb attention. They come as a fitting contrast to the imposing mechanical constructions exhibited in the Industrial Sections of the Exhibition. Nevertheless, the old and out-of-date contrivances doubtless did good work in their day, and their decay is that resulting from honourable wear and tear, frequently under unskilled hands and control.

A two-man manual, dating from 1626, is still in working order. It was supplied to Exeter in that year, and was the sole protection of that city for upwards of a century. Stationed at the Guildhall, it is ludicrous to learn to-day that upon an outbreak of fire it was necessary to apply to the Mayor—or, in his absence, the Beadle—for permission to use it. By either of these dignitaries it was only loaned on condition that it was returned in good repair, etc. This was something like loaning an umbrella on the promise that the borrower would not get it wet. This historic engine was carried to conflagrations by means of hand-poles and shoulder-straps. With it may also be seen horn lanterns, leathern buckets, and a watchman's alarm rattle, all of which have long outlasted their day.

Another old engine has a device by which four men could with their feet help the pumpers. It was one of these that the Princess Amelia, daughter of George II., presented to the Parish of Mortlake in 1758. Mendlesham, Suffolk, displays its 200-years-old parish engine, with leathern buckets and swivel stand-pipe. Kettering shows an old manual date 1735, Montreal (Canada) loans a Life-saving shoot of 128 years ago; and there is also a manual which was made by "The village blacksmith," or some other modest workman, and which has done good work. Three interesting exhibits are the old engine loaned by Earl Cowper, K.G., from Brocket Hall, Herts., the Duke of Norfolk's Cabinet fire-engine, and a manual with leather hose from Windsor Castle.

One of the first engines that superseded the primitive syringe is dated 1721, and comes from Exeter. It has two single-acting pumps, and is worked by handles and treadles. The same City also proudly shows a semi-rotary manual engine, which



for fifty years did active service, and is now the only specimen of this particular type in existence. The Bexley Parish Squirt is a quaint-looking arrangement. It bears the year 1774, and has no hose attached to the engine, merely a five feet long nozzle fixed to a revolving-elbow, which could be swung in any direction from a distance not too hot to be bearable.

There is something of a military look about half-a-dozen red felt helmets with elaborate coats-of-arms adorning them. They would go well with the blue cloth tunic decked with red plush epaulettes and brass badges. The red-sleeved waistcoats worn by the West of England Fire Insurance Company's brigades were in use for over a century. Firemen were fond of bright colours in those days, as some helmets of blue waterproof canvas and blue plush breeches further testify.

Some fire-escape poles from Hampton Court Palace are rightly marked obsolete. They could hardly have been of much service to any but an extra-agile person. The oil-wick torches, arranged in wheel form, were evidently used for demonstrations or for assisting with their light the labours of the firemen.

The extraordinary and opposite effects of two flashes of lightning are strangely evidenced. In the one a farm labourer was "struck by lightning," and every article of his clothes stripped from his body and strewn across a field in a line for 66 feet. The man was drenched with rain at the time, and it is explained that his wet garments offered a good path for the electric current, which, however, turned the moisture into steam, thus burning his clothes away from his body in shreds, and not fatally injuring the man. On the other hand a cloth cap, with a portion torn from it as if by the fangs of a tiger, shows a fatal result, the victim, who was wearing the cap when the lightning struck him, dying instantly.

An old-fashioned water-tower dates from the 17th Century, and consists of a 14-foot copper branch pipe with a gun-metal nozzle, and a crutch to support and direct it. Firemen's hats and helmets of varying epochs; fire trumpets, alarm rattles; and cups, wreaths, and shields won in contests, are shown in infinite variety.

There is a wooden water main from Throgmorton Street dating from about 1600, and representing London's first water service. A fireman's axe of 1659; "The Mayor" and "The

Alderman," two useful implements for forcing closed gates and doors; and a "black Jack" and liquor barrel from Old Greenwich Hospital provide interesting studies.

There are numerous truncheons and double-hand "night-sticks," Georgian hand-painted staves, special constables' batons used during the Chartists' Riots, metal gongs for gathering the firemen, and relics of memorable fires, the whole of these have stories attached to them. A sash-weight found after the fire at the Colonnade, Worthing, has nails, an iron hinge, and other metals bedded in it, showing that it must have been practically a molten mass at one period of the conflagration. There are relics of the Alexandra Palace, Spurgeon's Tabernacle, and other big fires.

In the Art Section the paintings in oils, engravings and prints are of valuable interest. In one the Great Fire of Ottawa is depicted, in another it is a Norwegian sealing ship burning in the Arctic regions. • The ship *Goliath* on fire at sea, the destruction of the Royal Exchange, London. The Tooley Street Fire, that at the Tower, and also the recent calamity at Colney Hatch Asylum are shown alongside a photo of a Brigade drilling at Hawarden Castle, with the late W. E. Gladstone in the foreground, a painting of a London Fireman in the quaint uniform of 1696, and half-a-dozen photographs of a big fire taken by its own light.

In this section no visitor must fail to see the famous oil painting, by the late Sir John Millais, depicting a fireman bearing three children from a burning residence to their mother's grateful arms. This work was exhibited at the Royal Academy, and created quite a furore.



# The Monolith of Fame.

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A Tribute to the Fire Heroes of London, Paris,  
New York, and Berlin.

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Year in and year out, in all parts of the world, brave firemen risk their lives for their fellow men, and also to save property.

The British Fire Prevention Committee considered that on an occasion of this kind some tribute should be paid to the many firemen who have died in the interests of fire protection; men who have laid down their lives, not only to save the lives, but also to guard the property, of their fellow men. With this object, the Committee suggested that a memorial should be erected in a prominent position at the Exhibition, to remind the visitor that with all the stirring scenes he may see of firemen "Fighting the Flames" in the Empress Theatre, in the pictures at the Loan Section and elsewhere, there remains a very sad side to the history of fire—the terribly long list of names of firemen in all parts of the world, who have died doing their duty.

To give the names of all the firemen killed in harness would be an impossible task; so the Committee have thought it best to make this memorial representative of the Fire Services of the four Great Capitals of the World, and the Monolith of Fame here presented contains a list of names of firemen who have fallen in London, Paris, New York, and Berlin.

This tribute and Memorial to the Fire Service of all countries is intended to be a tribute to the professional, police, volunteer, and private fireman alike.

The Monolith of Fame has been carefully compiled from authoritative sources, assistance being kindly given for this purpose by the chief officers of the fire brigades of Paris, New York, and Berlin.



# Historical and Art Section.

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## FRENCH EXHIBIT.

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This exhibit is intended to demonstrate the uniformity of the arrangements of the general fire service of France, which is mainly subject to two great fire brigade organisations, viz., the French Fire Brigade Federation and the French Fire Brigades Union. The organisations are recognised by the Government, and the Federation alone comprises a membership of some 34,000 firemen distributed among a large number of brigades. There are only a few professional fire brigades in France, the vast majority being organised on the basis of compulsory fire service for all townships having a greater population than 3,000. The officers of these corps hold commissions from the Government for five years at a time, and can only be proposed for their commissions by their district prefects. The principal professional brigade is that of Paris, which, however, has the peculiarity of being essentially a military organisation, ranking as a battalion of infantry, and comprising 28 officers and 1,146 men.

*Lent by Monsieur A. Giroult, Fournisseur du Ministère de la Guerre, pour l'habillement, du Regiment de Sapeurs Pompiers de Paris, 16, Rue Coquilliere, Paris.*

1. HISTORICAL EXHIBIT OF FRENCH FIREMEN'S UNIFORMS.  
MODEL OF FIRE MANUAL WORKED BY INFANT FIREMEN.

(This collection is unique, and represents the different Uniforms of Firemen of France from 1830 to the present day. All the Uniforms have been made by Messrs. Giroult et Cie., from Designs approved by the Ministère de la Guerre.)

*Lent by Le Regiment des Sapeurs Pompiers de Paris.*

2. Oil Painting, by Renard, "Death of Colonel Fraidvaux."
3. Drawings, Plans, etc., of Paris Fire Stations.
- 4 and 5. Two Models of Hose Carts.
6. Model Steam Fire Engine.
7. Model Fire Escape.
8. Public Fire Alarm, with Automatic Morse Receptor, and Fittings complete.

## EXHIBIT OF THE IMPERIAL RUSSIAN FIRE BRIGADE FEDERATION.

This exhibit is intended to demonstrate the working of a large federation of volunteer fire brigades in Russia, organised in a manner not unlike that of the N.F.B.U. of Great Britain. This Russian Federation comprises 1,000 fire brigades, and has been in existence for 10 years, and has the active co-operation of societies of the Imperial Russian Government. The organisation also has means of assisting small volunteer fire brigades in obtaining financial aid with a view of arranging the equipment on an economic basis with the expense spread over a number of years.

SOCIETE IMPERIALE DES SAPEURS-POMPIERS DE RUSSIE.

*President :*

His Imperial Highness the Grand Duke Wladimir Alexandrovitch.

1. Portrait, H.I.H. the Grand Duke Wladimir Alexandrovitch, President of the Imperial Russian Society for Fire Prevention.
2. A Diagram of the Society's growth.
3. A Map of European and Asian Russia giving the location of Urban and Rural Fire Brigades Fire Prevention Societies, as well as the route of the Travelling Fire Exhibition, as organised by the I.R.S. for Fire Prevention, which route comprises both Railway Lines and Waterways.
4. A tableau of the All-Russia Society for Mutual Help of those connected with the Fire Department, otherwise known under the title of the "Blue Cross Society," the Tableau giving the Society's growth and development.
5. Complete Uniform of a Fireman of the St. Petersburg Urban Fire Brigade.
6. Complete Uniform of the Commander-in-Chief of a Volunteer Fire Brigade Association.
7. Complete Uniform Dress of a Detachment Officer (Commander) of same.
8. Complete Uniform of a "Climber" of same.
9. Books referring to the Fire Department and Fire Prevention.
10. An Album of Photographs giving an idea of the Organisation of several Fire Prevention Societies, etc.
11. Detachment Commanders of the Fire Brigade Association of the City Souvalki.
12. Members of the Volunteer Fire Brigade Association of the City of Shlock.
13. Departments-Commanders of the Fire Brigade Association of the City of Archangelsk.
14. All-Russia Travelling Fire Exhibition Department at the City of Louga.
15. The Swiatogorsk Fire Brigade Association.
16. Deputation of the Rjeff Fire Brigade Association at the Opening of All-Russia Travelling Fire Exhibition Department in St. Petersburg.

17. A Fire-hoseman and a Hatchetman of the Yalta Fire Brigade Association.
18. A Fire-hoseman of the Windau Fire Brigade Association.
19. The Dorogobush Fire Brigade Association.
20. The Lowitch Fire Brigade Association.

### FEDERATION OF ITALIAN FIRE BRIGADES.

The exhibits forwarded from Italy include some capital photographs of novelties in fire-fighting and saving life that need to be carefully inspected in order to do justice to them. Those displaying the Venice Aquatic Fire Brigade in gondolas and steam tugs, the Milan apparatus for rescuing animals from burning buildings, and the rope-ladders and knotted lines as worked in Turin, are samples of what will come new to English people.

Medal of the Italian Fire Brigades' Federation.

Bronze Statue of a Fireman on a house-top.

Model of the "Italian" Escape Ladders.

Model of Canvas Reservoir for Feeding Fire Engines.

Numerous Framed Photographs of Fire Brigades at work in Palermo (Sicily), Turin, Venice, Milan, etc., and old Pictures.

Pamphlets of Statistics and Regulations.

### PAINTINGS, ENGRAVINGS, Etc.

*Lent by the Proprietors of the "Graphic."*

9. Oil Painting, "Burning of the 'Goliath,'"
10. Oil Painting, "Fire at Sea."
11. Black and White Drawing, Great Fire at Ottawa.
12. Black and White Drawing, A Fire at the Bankso Khan.
13. Black and White Drawing, A Norwegian Sealing Ship on Fire.
14. Black and White Drawing, Great Fire at Colney Hatch Asylum.
15. Print, "Fire! Fire!!"

*Lent by C. Arthur Pearson, Ltd.*

- 16 to 19. Four Drawings of Gallant Rescues by Firemen.

*Lent by Rugby Volunteer Fire Brigade;*

*Warren Hawksley, Esq., Hon. Sec.*

20. Old Print of Appliances of London Fire Engines, as used about the year 1825.

*Lent by the Cork Fire Brigade; Supt., A. J. Hutson.*

21. Oil Painting, "City Court House, Cork." Burnt Good Friday, 1891.
- 22 and 23. Samples of Non-flammable Dresses for Males, Females, and Children, and Photographs of same.



*Lent by J. A. Vintner, Esq.*

24. Oil Painting, "The Narrow Escape."

*Lent by J. T. Herbert Bailly, Esq.*

25. Oil Painting, "Toohey Street Fire."  
 26. Oil Painting, "Fire of City, unknown."  
 27. Print, "Fire at the Tower."  
 28. Print, "Life of a Fireman."

*Lent by James Birch, Esq., Bridge Place, Pinner, Middlesex.*

29. Painting, a Midnight Fire at a Nunnery, in 1705.

*Lent by G. Hastings Bostock, Esq.*

30. Print, Old Fire Engines at Work.

*Lent by George Terry, Esq.*

31. Coloured Print of the Great Fire of London in 1861.  
 32. Photograph of the Great Fire Brigade Competition at Alexandra Palace in 1879.

*Lent by the Bodrhyddan (Rhuddlan) Fire Brigade Fire Station, Rhuddlan, R.S.O.*

33. Old Fire Engine, Built Early Part of Last Century.  
 34. Engraving, dated 1836, Fire at Royal Exchange.

*Lent by City Museum and Art Gallery, Nottingham. (Per G. H. Walliss, Esq., F.S.A.)*

35. Oil Painting, Nottingham Castle on Fire, October 10th, 1831, by Henry Dawson, born 1811, died 1878.  
 36. Engraving, Conflagration at Messrs. Denison & Co.'s Cotton Mills, Nottingham, November, 1802. Engraved by J. Black, from the original painting by Thomas Barber.

*Lent by Holbrook Gaskell, Esq., J.P.*

37. OIL PAINTING, "THE RESCUE," by Sir JOHN E. MILLAIS, P.R.A.

*Extract from "Table Talk," by Shirley.*

"I knew Thomas Spencer Haynes intimately for nearly 40 years. From London he wrote me May 25th, 1855.

"I went in for half an hour to the Royal Academy yesterday, but as I was almost too tired to stand, I did not stay any time. I shall say nothing about it but this:—

"That the face and form of that woman on the stairs of the burning house are, if not as I am inclined to think beyond all, quite equal to the best that Millais has ever done, not forgetting the look of unutterable love and life-deep yearning in "The Huguenots"—and those children—ah me! I can hardly bear to think of it *yet*, the agony is too near, too intense, too awful for present rejoicing even at the deliverance, and that smile in the young mother's face has struggled up from such depths of speechless pain, and expresses such a sudden ecstasy of utter gratitude and overmastering joy, that it quite unmans me to look at it. It is the most pathetic and intense utterance of pure human love I have ever met with."

*Lent by G. H. Tucker, Esq.*

38. Oil Painting, by John J. Barker, The Burning of Old St. Paul's in the Great Fire of London, 1666.

*Lent by the Guildford Corporation.*

39. Oil Painting, Fire Scene, by Van der Poel, 1650.  
40. Three Old Leather Helmets.

*Lent by the Sun Insurance Office.*

41. Oil Painting by Stanhope Forbes, A.R.A., "The Fire of London," being the sketch for cartoon in the Royal Exchange, London.  
42. Oil Painting, by G. Chambers, Tooley Street Fire, 1861.

*Lent by the Artist, R. Phené Spiers, Esq., F.S.A.*

In the month of May, 1871, the Communists, beaten back from the outer Fortifications of Paris, determined to wreak their vengeance on the city itself, and to leave it a mass of smoking ruins. To this effect they filled the chief buildings, to which they were able to obtain access, with combustible material, and sprinkling petroleum everywhere, set fire to them.

The service of the "Pompier" of Paris was disorganised, and the firemen were either members of the Commune or in the French Army, so that the fires were allowed to burn themselves out, no attempt being made to extinguish them.

The six drawings here shown represent some of the ruins, and were made in September and October, 1871, by which time the *débris* had been removed and the walls shored up where necessary.

43. The West Front of the Palace of the Tuileries.  
Salle des pas-perdus, Palais de Justice, from the South-West.  
Salle des pas-perdus, Palais de Justice, from the North-East.

The Hotel de Ville, the West Front.

The Hotel de Ville, the South or Garden Front.

The Hotel de Ville, the Salle des Fêtes.

44. Water-colour Drawing, Japanese Fire Engine.

*Lent by A. Jacoby, Esq., M.P.*

45. Engraving, "South View of Nottingham Castle," showing Fire on 10th October, 1831.  
46. Engraving, North-West side of Belvoir Castle, after the Fire.

*Lent by C.O. William Ely, Central Fire Station, Leicester.*

- 47 and 48. Two Oil Paintings, London Firemen, date 1696.

*Lent by Edwin O. Sachs, Esq.*

49. "One of the Best," by Rossi Ashton.  
50. Series of Sketches from the Continental Fire Brigades' Officers' Visit in 1894, by Kaskeline.

*Lent by J. Hipkins, Esq.*

51. Illustrated History of the Great Fire, and a Biography, with Lithographic Illustrations, Sketches of the Fire, Portrait, and the Funeral Procession of Mr. Braidwood, 1861.

52. Water-colour Painting of Fire at Baker Street, 1883, by C. A. Pasquier, Esq.  
 53. Piece of Fused Glass from the Tooley Street Fire, 1861.

*Lent by Charles de Belle, Esq.*

54. "Fireman's Heroism." Pastel.

*Lent by E. Smythe, Esq.*

55. Water-colour Sketch, by J. M. W. Turner, "The Great Fire of London."

*Lent by Alfred Stapp, Esq.*

56. Print of the City of London at the Fire of 1666.

*Lent by Geo. H. Harrison, Esq.*

57. Black and White, Modern Steam Fire Engine at Work at a London Fire.

58. Coloured Print, Fire in London, 1808.

59. Water Colour, "Burning of Warwick Castle."

60. Print, Snargate Street, Dover, Fire, 1837.

61. Coloured Print, Farm Fire, no date.

62. Print. Comedie Theatre, Amsterdam, on Fire; date, 1772.

*Lent by Mrs. Ward.*

63. Oil Painting, Study for a Large Picture, Fire of London, by E. M. Ward, R.A.

64. Lock and Pieces Fused with Metal from the Tower Armoury Fire.

*Lent by the Corporation of Southport, per F. W. Teague, Curator.*

65. Oil Painting, "Saved." By Charles Vigor.

*Lent by Messrs. Thos. Crowther & Son.*

66. Two Sets of Chains that were in the Great Fire of London, 1666.

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## THE DUTCH COLLECTION.

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Holland may be looked upon as the original home of the fire engine, inasmuch as it was here that the great inventor Van der Heyde developed the fire squirt to take the form of the manual fire engine as we know it even to-day. It was here, too, that the same great inventor created what is generally termed as "fire hose" by simply sewing together canvas strips so as to form tubes—a great invention in his day. Afterwards he similarly sewed together strips of leather. With the creation of hose an entire change came about in the way of dealing with fires; it was the great marked invention of the seventeenth century. The interest evoked in Holland in the matter at the time was very great. We find the subject constantly dealt with at the time on engravings and pictures and also on monuments. Hence, it was only natural that the British Fire Protection Committee used every possible effort to obtain this wonderful collection, and, thanks to the



strenuous and unceasing efforts of Captain A. N. J. Fabius and Mr. Bickers, a collection has been brought together which does justice to this great historical event of the Fire Service.

*Lent by the Dutch Royal Archæological Society, Amsterdam.*

67. Thirteen Drawings by John van der Heyde.

*Lent by Mr. D. J. Tvethout, Editor of the "Echo," Amsterdam.*

68. A book, in the Dutch language, entitled, "Fire Extinguishing, Past and Present."

*Lent by Mr. D. S. Hotboom, Publisher, Haarlem.*

69. A book, "Description of the Newly-Invented Fire Engines," by John van der Heyde. (The original description by the inventor.)

*Lent by the Fire Brigade, Friesland, Netherlands.*

70. Six Staffs (marks of distinction used in early times by the officers of the Fire Brigade in the country).

*Lent by the Fire Brigade, Amsterdam.*

71. An old Fire Engine, made in the workshop of John van der Heyde, with Pump Sticks.

72. 18th Century: A Trophy of Armlets and Straps.

73. 19th Century: Wooden Boards of Fire Officers.

74. 19th Century: Rattles or Clappers for Watchmen.

75. 19th Century: Sail-cloth and Leather Hose.

76. Relics of the House where John van der Heyde lived.

77. A Pump on a wooden support, in the shape of an "X," with Hose, Basket and Strainer.

78. Twelve Engravings, Fire Appliances, etc.

*Lent by Mr. H. G. Bom, of Amsterdam.*

79. A Collection of old Engravings of Dutch Fires, and original Drawings of first Fire Engines, etc.

Portrait of J. van der Heyde, Inventor of Fire Hose.

80. A Well-Preserved Drawing of an Ancient Fire Engine with all Accessories, six buckets, etc.

81. A Helmet of the Old Fire Brigade of Utrecht.

82. A Silver Medal of the "Ce Blg<sup>e</sup> Dass Contre l'Incendie." (This Medal is put at the disposal of Mr. Bom by Mr. Brugman, of Amsterdam.)

*Lent by G. van Stolk, Az., of Rotterdam.*

- 83 and 84. The Original Portrait of John van der Heyde, together with a Collection of Drawings, Engravings, and Manuscripts of Famous Fires, and Van der Heyde's original Designs for his first Engine.

*Lent by Messrs. A. Bickers and Zoon.*

BRANDWEER MUSEUM, ROTTERDAM (HOLLAND).

85. A Collection of Engravings and Prints of notable Fires, Engines, etc.

86. Steam Cylinder of the Steam Fire Engine "de Maas" built by Messrs. Merryweather & Sons in 1840,

Collection from the Merryweather Museum, Greenwich.

87. Old London Parish Manual, built by Merryweathers, 1852, for the Churchwardens of Christ Church, Newgate Street, and St. Leonards, Foster Lane.
88. Ancient Manual Fire Engine. A.D. 1776, from, Market Deeping, Lincolnshire, mounted on a four-wheel cart for rapid travelling. On arrival at a fire, it was lifted off and run on its own wheels by hand.
89. Length of old sewn leather Suction Hose from Manual Fire Engine of 1761, made by Hadley & Simpkin, predecessors of Merryweathers. Still water-tight after nearly 150 years.
90. One of the Oldest of the Old, Ancient Hand Fire Engine, found in a church crypt, where it had lain many years forgotten.
91. Old Brewery Manual. In old times, before London had a high water service, the various breweries, such as His Majesty's Brewhouse, Thrale's Brewery, Hoare's, Reid's, etc., kept engines to put out fires in roofs and top floors.
92. Twelve Old Sewn and Rivetted Leather Fire Buckets, from the Fire Offices Brigades, and Country Mansions. Several made over one hundred years ago.
93. The Merryweather Buckets. These three buckets show the change in shape and mode of making of fire buckets during the time the firm has been in existence:—(a) The large bottom, tapering upwards, of Nathaniel Hadley, founder of Merryweathers' business; date, 1728. (b) The straight-sided bucket of Moses Merryweather, dated 1807. (c) The modern bucket of J. Compton Merryweather, the present head of the firm; dated 1895.
94. Old Long Preventor, or Fire Hook, from Hythe, Kent. Used to pull down walls of buildings adjoining those burning, to prevent fire spreading further. Was handled by a number of men, and is mentioned in records of the seventeenth century.
95. Two Large Signal Lamps, used on the Hodge's Distillery Fire Brigade Steam Fire Engine, "Deluge," for showing white, green, and red lights to code of signals.
96. Original Letters Patent granted to M. Merryweather in 1844, for the Cabinet Fire Engine, made for the Duke of Norfolk.
97. Two Lengths of Old Sewn Leather Hose, supplied by Hadley and Simpkin, Merryweather's predecessors, 140 years ago, and still serviceable.
98. Japanese Hand Fire Pump, of olive wood, with copper sheet valves, made by Tategaivie Soiske, of Tle Yuen Tsoo Hong.
99. Fire Bucket from the "Star and Garter" Hotel, Richmond, supplied after the destruction by fire in 1870.
100. Manual Fire Engine, built by Merryweather in 1862, presented to Frederick Hodges, Esq., by the inhabitants of Lambeth, in recognition of the services of the Hodge's

Distillery Fire Brigade. Ornamental work by Signor Casentine.

101. Old London Squirt, dated A.D. 1588.
102. Wooden Water-Main from Throgmorton Street, London, date about 1600; from London's first water service.
103. Model of Old Long Acre, Merryweather's original factory; referred to by Charles Dickens in "Sketches by Boz."
104. Fireman's Axe, A.D. 1659.
105. Three Ancient Long Branch Pipes.
106. "The Mayor" and "The Alderman," for breaking open doors, etc.
107. Set of Ancient Fire Apparatus: Squirt, Axe, and Three Buckets, over 200 years old.
108. Windsor Castle Manual Fire Engine, with weighted fly-wheels, sewn leather hose; in working order; dated, Merryweather, 1735.
109. Old Hand Pump, from British Museum.
110. Old London Hydrant, as used in Braidwood's time.
111. Dutch Engraving; Fire, January 12th, 1673.
112. Dutch Engraving, Section of House on Fire, showing Engines at work.
113. Dutch Engraving, Fire, July 20th, 1864.
114. Dutch Engraving, Fall of Wall, Killing Firemen, December 5th, 1658.
115. Dutch Engraving, Fire, January, 1684.
116. Dutch Engraving, Fire, December 29th, 1669, at a Sugar Baker's.
117. Dutch Engraving, Fire, October 25th, 1670.
118. Dutch Engraving, Good "Stop" of a Fire, April 26th, 1683.
119. Dutch Engraving, Old Dutch Fire Apparatus.
120. Dutch Engraving, Fire on Ship, May, 1690, Indian and Oriental Wharf.
121. Dutch Engraving, Fire at Amsterdam, July, 1679.
122. "The Times," by Hogarth (Fire Scene).
123. Fire at Bankside, London..
124. Procession New York Firemen, January, 1858.
125. Great Fire, Newcastle, 1854.
126. Ruins, "Star and Garter" Hotel, Richmond, 1870.
127. London Fire Brigade Practice, 1868.
128. Dutch Engraving, Fire at Amsterdam, 1752.
129. Fire, Shepheard's Hotel, Cairo.
130. Fire, Sailors' Home, Liverpool, May, 1860.
131. "Chance," the London Fire Dog.
132. Great Fire, Tooley Street, London, 1861.
133. Gilt Finial from Great Fire at Alhambra, London.
134. Old Greenwich Hospital Black Jack.
135. Liquid Barrel, carried by Hodges' Distillery Fire Brigadé, for Firemen's Refreshment.
136. Oil Painting, "Star and Garter" Hotel, Richmond.
137. Oil Painting, Canterbury Cathedral and Merryweather's Steam Fire Engine at Work.



138. Oil Painting, Burning of the Royal Exchange, 1838.
  139. Oil Painting, Fire Drill at Taymouth Castle, Aberfeldy.
  140. Oil Painting, Burning of Houses of Parliament.
  141. Oil Painting, "Torrent" Steam Fire Engine, 1863.
  142. Engraving, Burning of London Bridge, 1738.
  143. Oil Painting, A Fire in the Low Countries.
  144. Oil Painting, Farm Fire.
  145. Pen and Ink Sketch, Paddy Flynn Drinking.
  146. Engraving, Part of Ruins of Cornhill, London, 1748,  
Newsham's Engine at Work.
  147. Engraving, Fire in London. Published September 1st, 1808.
  148. Oil Painting, Captain Shaw.
  149. Engraving of Adam Nuttall, of Long Acre, London, 1751.
  150. Photographs of Old Fire Engine in Crypt of St. Michael's  
Church, Bristol.
  151. Merryweather's First Fire Engine List.
  152. Lord Rosebery's Merryweather Steam Fire Engine  
"Mentmore."
  153. Water-colour Drawing, Man with Shirt on Fire.
  154. Engraving, Fire at St. Stephen's Chapel, 1834.
  155. Oil Painting from Side of Manual Fire Engine, 1807.
  156. Hodges' Fire Brigade, with "Torrent" Steam and "Deluge"  
Manual; coloured picture.
  157. Photograph, Ladies' Fire Brigade, Marazion, Cornwall.
  158. Extract and Letter re The Father of the Cycle.
  159. Engraving, A London Fire.
  160. Photograph, Arms of Bristol Crown Insurance Co., 1718.
  161. Painting of Volcanic Eruption, 1812.
  162. Prophecy of 1829, Motor Carriage; coloured engraving.
  163. Oil Painting, A Fire Scene.
  164. Engraving, Albion Hill Fire, Blackfriars, 1791.
  165. Engraving, Fire at Royal Exchange, 1838.
  166. Engraving, Fire at Bristol, 1831.
  167. Engraving, Le Feu.
  168. Diploma to Merryweathers, Royal Naval Exhibition.
  169. Engraving, Houses of Parliament Fire, 1834.
  170. Burning of H.M.S. "Quebec," 1779.
  171. Photograph, Bombay Fire Brigade.
  172. Photograph, Commemorative Diploma, St. Petersburg,  
1882-1892.
  173. Engraving, James Braidwood.
  174. Engraving, Destruction of Houses of Parliament, 1834.
  175. Lion's Head, partially melted, from Hampton Court Fire,  
1882.
- Lent by Frank L. H. Collins & Sons.*
176. Collection of Old Fire Marks, Firemen's Badges, Buttons, etc.
  177. Chair Medallion, Liverpool Company, Belt Buckle, Cashal  
Brigade, Casque (helmet), Head-dress of Manchester Fire  
Office.
  178. Certificate Firemen of Thent Fire Office.

179. Oil Paintings, Houses of Parliament Fire, Fire Kennington Church.
180. Prints of Fires: St. Paul's, Covent Garden, Tooley Street, 1861 (two), Blackfriars Bridge, Rioters Firing Newgate Gaol, Early Fire Engines.
181. Views of Hungerford Market, St. Stephen's Chapel, Great Fire of London (two), Ruins Store-House, Tower of London.
182. Collection of Old Policies, including Corporation of London, 1682.
183. Books, Historical Register and Royal Kalender.
184. Bucket from Ely Cathedral.

*Lent by the Union Assurance Society.*

185. Collection of Eight Engravings and Prints of Notable Fires.

*Lent by Messrs. Shand, Mason & Co.*

186. Complete Working Model, to scale, of the Manual Fire Engine by Tilley & Co., predecessors of Shand, Mason & Co., as supplied to the London Fire Engine Establishment in the days of Superintendent Braidwood.
187. Complete Working Model, to scale, of Shand, Mason & Co.'s "London Brigade" Manual Fire Engine, as constructed about the year 1875.
188. Two Old Hand Fire Axes from the Equipment of an Exchange Fire Insurance Co.'s Fire Engine, 1790.
189. Full-size Model of Hand Fire Squirt, similar to those used in London at the time of the Great Fire.
190. "Slang Brand Spuiten" (Hose Fire Engines) by Jan Van der Heiden. Ancient Dutch book, with fine copper-plate engravings, first published in 1690, illustrating the Hose Fire Engines invented by the Van der Heidens, General Firemasters of the City of Amsterdam.
191. Photograph of the First Land Steam Fire Engine constructed by Shand, Mason & Co., A.D. 1858.
192. Enlargement of Photograph, showing the First Land Steam Fire Engine bought by the London Fire Engine Establishment, constructed by Shand, Mason & Co. in 1861. [The first Land Steam Fire Engine used by the Brigade was hired from Shand, Mason & Co. in 1860.]
193. Four Photographs, showing Curious Old Manual Engine formerly used by the Glasgow Fire Department. It will be noted that the Engine was worked by a double line of pumpers at each side of the machine. The Engine was built in 1843, and weighed about three tons.
194. Water-colour, "Steam Fire Engine Travelling to a Country Fire."
195. Engraving, Metropolitan Firemen at Work.
196. 17th Century Manual Fire Engine, used in Dunstable.
197. Old Manual Fire Engine, 1775, used in Worcester.

- 198. Old Parish Fire Engine, early 19th Century, used in St. Mary's, Whitechapel.
- 199. Old Manual Engine, early 19th Century, from a Nottinghamshire Mansion.
- 200. Portrait of James Braidwood, first Superintendent of the London Fire Brigade, with Photograph of Memorial Wall Tablet, marking the spot where he lost his life at the Tooley Street Fire.

*Lent by the Royal Insurance Company.*

- 201. Collection of nine Pictures of Fires.
- 202. Two Chinese Almanacs.
- 203. Two Old Policies.
- 204. Print of Royal Insurance Buildings, Liverpool.
- 205. Kent Fire Mark.

*Lent by the Northern Assurance Company.*

- 206. Photograph of Aberdeen Head Office.
- 207. Six Old Leather Fire Buckets.
- 208. Photograph, Ruins of Entrepôt Royal, Antwerp, 1901.

*Lent by the Atlas Assurance Co., Ltd.*

- 209. Photograph of Head Office.
- 210. Silver Badge, as worn by the old Atlas Firemen.

*Lent by Westminster Fire Office.*

- 211. Members' Contributionship Roll.
- 212. Set of Fire Marks.
- 213. Print, Waterman of the W.F.O.
- 214. Old Policy of the W.F.O.
- 215. Gold Medal issued to a Director in 1823.
- 216. Silver Medal issued to Secretary in 1792.

*Lent by Albert D. Brookes, Esq.*

- 217 and 218. Two Engravings, Fires of Bristol Riots, 1831.
- 219. Mezzotint, Woman Escaping from a Fire.
- 220. Engraving, The Great Fire of London.
- 221. Engraving, Defeat of the Spanish Armada, Ships on Fire.

*Lent by the Sun Insurance Office.*

- 222 and 223. Two Engravings, Dutch Fire Scenes.
- 224. Engraving, Burning of Royal Exchange, 1838.
- 225. Engraving, Burning of the Custom House, 1814.
- 226. Print, Fire at Albion Mills, 1791.
- 227. Print, Fireman, 1805.
- 228. Sun Marks, 838 and 170699.
- 229. Firemen's Silver Badges.



*Lent by the Phoenix Assurance Company*

- 230. Print, "London Fire Engines."
- 231. Two Fire Marks—Protector and Protection.
- 232. Print, Destruction of Royal Exchange, 1838.
- 233. Print, Destruction of Houses of Lords, 1834.

*Lent by the London Assurance Corporation.*

- 234. Small Manual Fire Engine, 1848, in use up to the formation of the Metropolitan Fire Brigade.
- 235. Four Old Leather Fire Buckets.
- 236. Fire Insurance Policy, issued in 1731, signed by Ed. Overall, who was the organiser of a scheme of Insurance known as Overall's Insurance.
- 237. Fire Insurance Policy issued in 1730.
- 238 to 240. Directors' Silver Badges, issued in 1801. Old Fire Mark and Old Office Chair, with Arms of the London Assurance on panel.

*Lent by M. R. Pryor, Esq.*

- 241. Old Fire Engine from Kings Walden, Herts, the seat of the Hale Family 1575-1886. William Hale, Founder of the Friendly Fire Office—the Fire Mark of this Office was the Hale Crest.

*Lent by the Churchwardens of St. Dionis, Backchurch.*

- 242-243. Two old Hand Squirts from the Church of St. Dionis, Backchurch, City of London, E.C.

*Lent by the Staines Urban District Council, Town Hall, Staines.*

- 244. Manual Fire Engine, date 1738.
- 245. Fireman's Hat, date 1738.

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## THE SHAW COLLECTION.

*Lent by Sir Eyre Massey Shaw, K.C.B.*

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- 246. Statuette of Sir Eyre Massey Shaw, K.C.B., late Chief Officer of the Metropolitan Fire Brigade, London, by H.S.H. Prince Victor of Hohenlohe.
  - 247. Japanese Fire Squirt.
  - 248. Oil Painting, Fire at the Houses of Parliament, 1840.
  - 249. Oil Painting of Sir Eyre M. Shaw, K.C.B., by Herr Wagner.

250. Oil Painting of Fire of London, 1866.
251. Oil Painting of Tooley Street Fire, 1861.
252. Oil Painting of Fire at Vauxhall, by Archibald Stuart Wortley.
253. Oil Painting of Great Fire of London, 1866.
- 254-255. Two Dutch Oil Paintings.
256. Oil Painting, Fire at the Houses of Parliament, 1840.
257. Oil Painting, Ship on Fire.
258. Two Books of Engravings, by Jan van der Heide, 1690 and 1735.
259. Photograph of Sir Eyre M. Shaw, K.C.B.
260. Engraved Brass Tray Model of Fire Engine, 1570.
261. Sixteen Prints of Old Fires and Portraits of Fire Heroes.
262. Drawing by Gustave Doré, "Rescued."
263. Model of a Manual Engine, presented to Sir Eyre M. Shaw.
264. Oil Painting, "Ship on Fire."
265. Photograph of Sir Eyre M. Shaw, K.C.B., 1901.
266. Oil Painting, Sir Eyre M. Shaw, K.C.B., by Mr. Henry Weigall, A.R.A.
267. Helmet and Axe of Sir Eyre M. Shaw, K.C.B., as used when Chief Officer of the M.F.B.
268. Helmet and Axe of Sir Eyre M. Shaw, K.C.B., as used when President of the National Fire Brigades Union.
- 269 and 270. Two Illuminated Addresses Presented to Sir Eyre M. Shaw, K.C.B.
271. Plaster Cast of the Destruction of H.M.S. "Bombay," Burned off the Coast of South America, made by H.S.H. Prince Victor of Hohenlohe.
- 272 and 273. Two French Diplomas.
274. Belgian Diploma.
275. Oil Painting, House on Fire.
276. Presentation Clock (presented by Her Majesty Queen Victoria to Sir Eyre Massey Shaw, K.C.B.).
277. Oil Painting, "Ship on Fire."
- 278 and 279. Two Photographs.

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*Lent by London and Lancashire Fire Insurance Company, per  
Thomas A. Bentley, Esq.*

280. Collection of Six Photographs of Old Dutch Prints of Fires.

*Lent by Messrs. Barratt & Co.*

281. Remains of the Old Bell, 1720, destroyed in the Great Fire at Messrs. Barratt and Co., Wood Green, N., 1899.

*Lent by the Fire Brigade, Exeter; C.O., William Pett.*

282. Three Firemen's Tunics, with Epaulettes and Brass Badges complete; 2 pairs of Blue Plush Breeches; 4 Firemen's Sleeve Waistcoats; 1 pair of Thigh Boots; 5 Leather Helmets; 7 Hatchets and Leather Belts.

The above-mentioned Uniforms were used by the West of England Fire Insurance Company's Fire Brigade, at Exeter, from 1780 to 1888, and were last used at the Exeter Theatre disaster, 5th September, 1887, in which nearly 200 persons perished.

283. Six Red Felt Helmets, with City Arms Badge, as used in 1880.

284. Six Blue Waterproof Canvas Helmets, as used in Exeter in 1770.

285. Two-Men Manual Fire Engine complete, and in working order, dated 1626, with 4 Leathern Buckets, 2 Horn Lanterns, Glass Lantern, and Watchman's Rattle.

NOTE.—This Engine was supplied to Exeter in 1626, and was the sole protection of that City for upwards of 100 years, the Engine being originally stationed at the Guildhall. In case of Fire application for its use had to be made to the Mayor or Beadle, who would loan the Engine, together with the Buckets, etc., on the condition the whole were returned in good repair, the Engine being carried to the Fire by means of the hand-poles and shoulder-straps, and supplied with water from the Conduits by means of the Leathern Buckets.

286. Fourteen Oil Wick Torches, as used in 1888.

287. Four-Men Manual Fire Engine, used in the City of Exeter, 1735. At present in good working order.

288. Twenty-Manual Semi-Rotary Fire Engine, built by T. Ramtree, of Great Surrey Street, Blackfriars, London, and supplied to the City of Exeter in 1794, complete with 13-ft. Copper Branchpipe and one 7-ft. Copper Branchpipe.

The above-mentioned Engine was used for the protection of the City of Exeter for upwards of 50 years, is at present in a fair state of preservation, and is the only specimen of this particular type of Engine in existence.

289. Fourteen ft. Copper Branch Pipe, with Gunmetal Nozzle and Crutch Support, complete; used as a Water Tower for extinguishing Fire in elevated positions, in the 17th Century.

290. Eight Leather Buckets, with brass rims and panels, containing Arms dated and used in the City of Exeter, 1724.

*Lent by Alcide Chaussé, Inspector of Buildings, City Hall, Montreal, Canada.*

291. Samples of Fire-Resisting Materials.  
Model Life-Saving Shoot.  
Photographs of Fires.  
Building Acts, Bye-Laws, etc.



*Lent by H.M. Office of Works, Westminster.*

292. Old Fire Escape Poles from Hampton Court Palace (obsolete)

*Lent by Edwin O. Sachs, Esq.*

293. Water Colour. "The Ruins of the Charity Bazaar Fire,"  
by Harry Budden.  
294. Diploma of the Berlin Fire Exhibition in 1901.  
295. Panorama Fire at Vienna.  
296. Three Photographs of the Ruins.  
297. Seventeen Photographs of Interesting Studies of Fires at  
Hamburg.  
298. Six Photographs of Factory Fire at Berlin, 1887, involving  
Loss of Life.  
299. Twenty-three Photographs of Studies of Fires in London.  
300. Photograph, Bird's-Eye View of Ruins of the Cripplegate  
Fire.  
301. Three Photographs of Appliances of the Oporto Municipal  
Fire Brigade.  
302. Eight Views of the Berlin International Fire Exhibition.  
303. Fire Brigade Badge of the Metropolitan Fire Brigade of  
Vienna.  
304. A Private's Full Fire Uniform, and an Undress Ditto of the  
Berlin Royal Police Fire Brigade, 1899 Pattern.  
305. A Supernumerary Officer's Undress Uniform of the Metro-  
politan Fire Brigade, Vienna, 1900 Pattern.

*Lent by Mr. J. W. Blyth, London Salvage Corps.*

306. Collection of Photographs of Notable London Fires.

*Lent by H. A. Hood Daniel, Esq.*

307. Engraving, Fires of Bristol Riots, 1831.

*Lent by the London and Lancashire Fire Insurance Company.*

308. Policy No. 1, "Quebec Assurance Company," of Quebec.

*Lent by H. W. Fincham, Esq.*

309. Collection of 61 Fire Insurance Companies' House Plates.

*Lent by Daniel Rea, Esq.*

- 310 and 311. Two Prints, Burning of the Royal Exchange,  
London, 1838.

*Lent by Rushden Fire Brigade; C.O., G. R. Turner.*

312. Five Photographs, Fire at Messrs. Cave & Sons' Factory,  
Rushden.

*Lent by Captain H. S. Hockin, Fire Brigade, Truro.*

313. Six Photographs of Fires.

*Lent by Ellis Marsland, Esq.*

314. Seven Photographs of Fire at Messrs. E. S. and A. Robinson's Warehouse, Victoria Street, Bristol, April 1st, 1903.  
315. Photograph of Fire at the Entrepôt Royal at Antwerp, June, 1901.

*Lent by Messrs. Howell & Brooks.*

316. Photograph of a Factory Fire.

*Lent by Charles F. Coales, Esq.*

317. A Model of a Six-inch Manual Fire Engine, made by Charles F. Coales, of Newport Pagnell, aged 13½ years. It is constructed accurately to scale, and capable of pumping 3¼ pints of water per minute.

*Lent by H. G. Drury, Esq., G.E.Ry.*

318. Charred Remains of a Till of Coppers after the Fire at Brightlingsea Station, on Great Eastern Railway, Dec. 30, 1901, when the Station was entirely demolished.

*Lent by J. W. Restler, Esq.*

319. Model of Single Cylinder Vertical Steam Fire Engine.  
320. Model of 6-inch Manual Engine.

*Lent by The National Assurance Company (Ireland)*

321. Photographs of College Green Office. Agency appointment Chinese Calender and 2 Fire Marks.

*Lent by North British and Mercantile Insurance Company.*

322. Photograph, Oath of Secrecy subscribed by Officials and Staff of North British Insurance Co., 1825.  
323. Photographs, Fire in Mid-Winter in Montreal.  
324. Two Old Wall Plates, Newcastle Fire Co.  
325. Two Old Wall Plates, North British Insurance Co.

*Lent by the Hand in Hand Fire and Life Insurance Society.*

326. Two Old Policies.

*Lent by the Manchester Assurance Company*

327. Two Chinese Almanacks.  
328. Eight Old Leather Buckets.  
329. Eight Chinese Wall Fire Marks.

*Lent by the Corporation of the City of London, per  
Alexander Clark Manufacturing Company.*

330. Fire Brigade Challenge Shield.

*Lent by F. Kell, Esq.*

331. Fireman's Helmet, late 17th Century.

*Lent by J. A. Anglim, Esq.*

332. U.S.A. Letters Patent, with Specifications, for Fire Ladders;  
Signed by President Jackson, 1834.

*Lent by Messrs. L. & H. Nathan.*

333. Old Fire Brigade Skirted Frock with Badge.  
334. Old Fire Brigade Skirted Frock.

*Lent by Lewis Evans, Esq., Russels, near Watford.*

335. Copy of "Instrumentorum (et Machinarum quas), by  
Jacobus Bessonius Delphinus, mathematicus et a madimis  
præter alia Excogitavit, etc." Folio—French Edition  
licensed 1569.  
336. Copy of Maetrum Machinarum — (Exhibens) Opera  
Moltaria Aquatica (constructiun) industria, by George  
Andræ Bockleri Etu. Folio. Nuremburg, 1662.  
337. Copy of Joseph Furtenbach's (des Aeltern) Mannhafter  
Kunst-Spiegel; et folio. Augsburg, 1663.  
338. Copy of "Beschryving (Der Neuevliks uitgevonden en  
geotrojeirde) Slang Brandspinten, (en) Haare wijze van  
Brand-Blussin), etc., etc. Door der zelve Inventeur (Jan  
van der Heide (en) Jan van der Heide de Jonge) Generaale  
Brandmeesters de stād. Amsterdam." fo. Amsterdam,  
1690.

*Lent by Hugh Wickham, Esq.*

339. Five Georgian Hand-painted Watchmen's Staves.  
340. Three William IV. Watchmen's Staves (including Double-  
handed Night Stick).  
341. Two William IV. Special Constables' Staves.  
342. Eight Victorian Police Truncheons, Various Cities.  
343. Special Constables' Staves of Riots, etc.  
344. One Georgian Watchman's Staff. Two Special Constables'  
Staves, Early Victorian.



## THE FOX COLLECTION

OF OIL PAINTINGS, ENGRAVINGS, PRINTS, &C., OF FIRES.

*Lent by Lieut. Colonel Fox, Chief of the London Salvage Corps.*

345. "Mr. Braidwood."
346. "Just in Time."
347. "London Fire Engine Station, Old Bishopsgate."
348. "Steam Fire Engine Proceeding to a Fire."
349. "Fire at Sea."
350. "French and Belgian Firemen." Old Full Dress.
351. "Burning of an Indian Chief." By Wright, of Derby.
352. "Sir C. Wren," who rebuilt London after Great Fire of 1666.
353. "The Great Fire of London, 1666"; showing Old St. Paul's. By the celebrated Artist, Griffier. *Note.*—This is the Original Picture painted at the time of the Fire. A Coloured Print of it is included in the Collection.
354. "Saved."
355. "Burning of Gomorrah." Curious old Picture.
356. "Ship on Fire," on Copper.
357. "Burning of Amsterdam," on Panel.
358. "Destruction of Houses of Parliament," 16th October, 1834.
359. "Burning of Dutch Farmhouse." By Van der Poel.
360. "Burning of Bristol by the Chartists."
361. "Destruction of Houses of Parliament," 16th October, 1834.
362. House on Fire, with Figures Saving Property at Night By Van der Poel.
363. "Great Fire of London."
364. "Fire at a Russian Town."
365. "Burning of Antwerp."
366. "Great Fire of Tooley Street," where Mr. Braidwood was killed.
367. "Burning of Ancient Gateway." (Note the Primitive Water Tower.)
368. "Great Tooley Street Fire," where Mr. Braidwood was killed.
369. Burning of Sevastopool.
370. Burning of German Town.
371. Sheet of *Sunday Times*, November 2nd, 1834; Burning of Parliament, and Ruins.
372. Insurance Fire Engines at a Fire. Old Print.
373. Burning of Dublin Theatre.
374. Burning of Covent Garden Theatre, 22nd March, 1856.
375. Ruins of Pavilion Theatre.
376. Burning of Quebec Theatre.
377. Union Fire Office, Cornhill.

378. Burning of Temporary London Bridge, 11th April, 1758.
379. Fire, Myer's Building Yard, York Road, S.E.
380. Sir John Evelyn's Plan for Rebuilding London after Fire.
381. Ruins of Campden House, Kensington.
382. Albion Fire Office Arms and Building.
383. Fire in Gaming Houses, Rakes' Progress. Hogarth.
384. Fire, Price's Oil Warehouses, Blackfriars, 26th November, 1862.
385. Funeral of Mr. Braidwood, 6th July, 1861.
386. Fire, Surrey Theatre, Sheffield, March, 1865.
387. Ruins, London Docks Fire, 1858.
388. Ruins, Covent Garden Theatre.
389. Brooks' Wharf, Queenhithe, June, 1876.
390. N.B.R. Co., India Rubber Works, Edinboro'.
391. Burning of Newgate by Rioters.
392. Burning of London by Boadicea.
393. Plan of London Fire, 25th March, 1748.
394. County Fire Office, Regent Street.
395. Burning of Adelphi Theatre, Glasgow.
396. Burning of Tower of London.
397. Burning of Royal Exchange.
398. Burning of Theatre Royal, Plymouth.
399. Burning of Olympic Theatre, 29th March, 1849.
400. Japanese Firemen at Drill.
401. Queen Visiting Ruins of Covent Garden Theatre.
402. Fire at St. Katherine's Docks, April, 1858.
403. Ruins of Scottish Corporation Hall, Fleet Street.
404. Burning of Town Hall and Exchange, Chester, 30th December, 1862.
405. Phoenix Fire Office Emblem.
406. Theatre Royal, Edinboro', January, 1865.
407. Covent Garden Theatre Fire.
408. Fire near Blackfriars Bridge, 1808.
409. Ruins, Tower of London, 30th October, 1841.
410. Plans for Rebuilding City of London after 1748 Fire.
411. Sir Eyre M. Shaw, with Autograph.
412. Burning of Newgate, 6th June, 1780.
413. Destruction of Houses of Parliament, 16th October, 1834.
414. "The Times" Union Fire Engine at Fire. Hogarth.
415. Seizure of Guy Fawkes Attempting to Blow Up Parliament.
416. Ruins of Royal Exchange.
417. Ruins of H.M. Theatre.
418. Ruins of London, and Temporary Bridge, 11th April, 1758.
419. Great Fire of London.
420. Ruins, York Minster, 3rd February, 1829.
421. Great Fire, 1666, after Griffier. Coloured Engraving.
422. Fire at L. & N. W. Ry. Goods Dépôt, 7th December, 1867.
423. Fire at Paris Opera House.
424. British Fire Engines, Four Quaint Old Skits—Atlas, Sun, County, London, Westminster, Engines.

425. Fire at Vatican, Rome. Raphael Cartoon.
426. Fire at Houses of Parliament, 16th October, 1834.
427. Fire at Winchester Palace, 20th August, 1814.
428. Sir C. Wren's Plan, Re-building London after 1666.
429. Fire, York Minster, 20th May, 1840.
430. Burning H.M. Theatre.
431. Ruins of Parliament, 1834.
432. Burning Royal Exchange, 10th January, 1838.
433. Burning of Parliament, 16th October, 1834.
434. Plan of Great Fire, 1666. Area destroyed.
435. Burning of Ship "Fane" at Sea, 1st February, 1824.
436. Burning of Royal Exchange, 10th February, 1838.
437. Sun Fire Office.
438. Royal Insurance Company.
439. Alliance Insurance Company.
440. Railway Exchange Emblem.
441. Great Fire, 1666.
442. Pie Corner Emblem.
443. Burning of Glasgow Theatre.
444. British Insurance Office.
445. Water Works Extinguish a Fire.
446. S.U. and N. Fire Office.
447. Fire, Covent Garden Theatre, 1856.
448. Fire, Olympic Theatre, 29th March (? year).
449. Ludgate, St. Paul's, and Bow Church Fire, 1666.
450. Conflagration: A Lucky Escape.
451. Braidwood.
452. Burning of St. John's, Smithfield, by Wat Tyler's Mob.
453. Burning of Parliament, 1834.
454. Burning of London, 1666.
455. Lot and His Daughters. On Panel.
456. Set of Three Buckets, 1837, London.
457. Set of Two Buckets from a London Wharf.
- 458 and 459. Two Prints, Amsterdam Fire.
460. Print, Burning of "Duke of Athol," 1783.
461. Burning of St. Paul's, Covent Garden, 1795.
462. View of Monument erected in memory of Great Fire of London, 1666.
463. Photograph, London Salvage Corps, with Supt. Blyth.
464. List of Engines and Stations of Fire Insurance Companies, 1824.
465. Portrait, Sir E. M. Shaw.
466. Pair Helmeted Heads.
467. Type of Paris Fireman.
468. Official Records of London Fire Engine Establishment, 1861, containing account Tooley Street Fire and Death of Supt. Braidwood.
469. Original C-de-V. Photograph of Supt. Braidwood, from his private album.
470. Inkstand in the form of Fireman's Helmet.



## EXHIBITS BY THE NATIONAL FIRE BRIGADES' UNION.

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The exhibits of the National Fire Brigades' Union are intended to show the extent and character of its organisation, the Society in question being the leading institution of its kind in Great Britain. The primary objects with which the Institution was established may be described as follows:—

(a) To provide a central organisation for Fire Brigades and Salvage Corps, and generally do all such things as may from time to time be necessary to elevate the status and procure the advancement of the interests of the Fire Service.

(b) To promote uniformity of drill, uniform, and all other matters connected with the Service.

(c) To encourage the establishment of Brigades in districts not at present protected, and to give advice in the formation of New Brigades, and to render financial assistance by way of loan.

(d) To provide opportunities for intercourse amongst the Fire Service, and to give facilities for the reading of papers, the delivery of lectures, and for the acquisition and dissemination by other means of useful information connected with the Fire Service.

(e) To watch over, promote and protect the interests of the Fire Service.

(f) To make surveys and reports on property for the purpose of giving advice for the better protection against loss of life and Fire.

(g) To promote or assist Fire Congresses, Tournaments, and Exhibitions in the United Kingdom and abroad.

At the end of 1901 the organisation comprised 7,657 Firemen distributed among 450 Brigades, who were equipped with 249 steam fire engines, 448 manual fire engines, 611 hose carts, and 444 fire escapes, the force being divided into 15 districts.

The Society is now in its 16th year, and has been instrumental in obtaining that uniformity in drill methods and equipment among a large number of Brigades which it was desirous of doing. It has developed an Ambulance Department of considerable importance. It has also organised a Widows' and Orphans' Benevolent Fund for the benefit of members of the Union. It has instituted a Long Service medal, and has promoted an important Bill in the House of Commons, which has had the careful consideration of a Select Committee for the purpose of putting the Fire Brigade Service of the Provinces on a better legal footing.

The Offices of the Union are at Trinity Chambers, Guildford, and the General Hon. Secretary is Mr. Horace Folker.

It is under the auspices of this Union that the spectacle at the Empress Theatre is being produced, and the Union will be holding its annual competitions at the Exhibition during July.

## COLLECTION OF SHIELDS, CUPS, AND TROPHIES (IN CASES)

*Per Horace S. Folker, Hon. Sec.*

- 471. National Steamer Challenge Shield.
- 472. National Escape Challenge Shield.
- 473. National Manual Challenge Shield.
- 474. National Hose Cart Challenge Shield.
- 475. National Ambulance Challenge Cup.
- 476. National Knot Challenge Shield.
- 477. National Dewar Challenge Shield.
- 478. Clinton Challenge Shield.
- 479. Green Manual Challenge Cup.
- 480. May Challenge Cup.
- 481. Sachs Challenge Cup.
- 482. National One-Man Challenge Cup.
- 483. Dunlop Squad Drill Challenge Cup.
- 484. Duke of Marlborough's Challenge Cup.
- 485. Seabroke Challenge Cup.

*South Coast District, per Capt. T. Sinnock.*

- 486. Steamer Drill, District Challenge Shield.
- 487. Manual Drill, District Challenge Shield.

*South Midland District, per Capt. A. Hill.*

- 488. Miss Somers Challenge Trophy.
- 489. Winifred Graham Challenge Cup.
- 490. Duchess of Marlborough Challenge Cup.
- 491. Mayor of Oxford Challenge Bowl.
- 492. Captain Green Challenge Bowl.
- 493. M.P.'s District (Driving Drill) Challenge Bowl.
- 494. M.P.'s District (Escape Drill) Challenge Cup.
- 495. Captain Evans Challenge Bowl.
- 496. Auguste de Wette Challenge Bowl.
- 497. District Challenge Shield.

*Yorkshire District, per Capt. J. G. Roper.*

- 498. District Challenge Shield.
- 499. Grimsby Challenge Cup.
- 500. Rotherham Challenge Cup.
- 501. Challenge Fire Trumpet.

*South-Eastern District, per Capt. E. Westbrook.*

- 502. Tunbridge Wells Steamer Challenge Cup.
- 503. Hose Cart Challenge Cup.
- 504. Hose Cart Challenge Shield.
- 505. Tunbridge Wells Corporation Challenge Shield.
- 506. District (Manual Drill) Challenge Shield.
- 507. Ambulance Challenge Cup.
- 508 to 512. Five Tunbridge Wells Challenge Cups.

*North-Western District, per Capt. R. Shaw.*

513. Hose Cart Challenge Shield.

*South-Western District, per Capt. Pitfield Chapple.*

514. Ambulance Challenge Cup (won by Fireman W. Connett, August, 1898).

*Lent by Horace S. Folker, Esq., National Fire Brigades' Union, Guildford.*

515. Six Coloured Engravings, American Fire Service, Past and Present.  
 516. Photograph of Her Majesty the Queen presenting South African Medals to the Firemen of the National Fire Brigades' Union Ambulance Department, Devonshire House, London, 1902.  
 517. Photograph, Volunteer Fireman's Home in State of New York, U.S.A.  
 518. Photograph, Johannesburg Fire Station and Brigade before the War.  
 519. Photograph of the N.F.B.U. Ambulance Firemen who served at the Imperial Yeomanry Hospital, Deelfontein, S.A.  
 520. Collection of Badges, Buttons, and Medals issued by the National Fire Brigades' Union.  
 521. Four Photographs, Great Fire at Barratt & Co., Wood Green.  
 522. Model of a Silver Presentation Engine, made by Messrs. Merryweather & Sons., Ltd.  
 523. Seventeen Photographs of Challenge Cups and Shields.  
 524. Etching by Paque.  
 525. Photograph, Blenheim Palace.  
 526. Two Photographs, N.F.B.U. Banquets.  
 527. Claret Bottle, Relic of the Fire of Eastley.  
 528. Two Ancient Parish Engine Padlocks.  
 529. Lantern used in Olden Times by the "Charlies."  
 530. Thirty-five Photographs of International Fire Congresses.  
 531. Pompier Belt of the late Fireman W. G. Harris.  
 532. Ten Photographs, Funeral Procession, etc.  
 533. N.F.B.U. Ambulance Furniture, consisting of Litter, Ambulance Pouch, do. Hamper, Haversack, and Carrying Sheet Stretcher.

*Lent by A. D. Barham, Esq., Seal and District Fire Brigade.*

- 534 and 535. Branch Pipe and Copper Basket Strainer, used on Old Manual Engine middle of the 18th century.



## EXHIBITS BY THE BRITISH FIRE PREVENTION COMMITTEE.

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The exhibit of the B.F.P.C. is intended to indicate the sphere of its work as set out by its objects, which are:—

1. To direct attention to the urgent need for increased protection of life and property from fire by the adoption of *preventive* measures.

2. To use its influence in every direction towards minimising the possibilities and dangers of fire.

3. To bring together those scientifically interested in the subject of Fire Prevention.

4. To arrange periodical meetings for the discussion of practical questions bearing on the same.

5. To establish a reading room, library and collections for purposes of research, and for supplying recent and authentic information on the subject of Fire Prevention.

6. To publish from time to time papers specially prepared for the Committee, together with records, extracts and translations.

7. To undertake such independent investigations and tests of materials, methods and appliances as may be considered advisable.

The Committee was founded in 1897, almost contemporaneously with the great Cripplegate Fire of November of that year; it was incorporated in 1899. It comprises a membership of about 300 members of the various technical professions interested in the subject, primarily Architects, Surveyors, Municipal Officials, Fire Brigade Officers and Insurance Assessors, and its main efforts have been so far devoted to investigating the character of building material and sometimes of building construction from the Fire point of view.

To this end it has already made some eighty investigations at the Committee's Testing Stations, the first of which was situated near Hanover Gate, Regent's Park, and the present one is situated in Porchester Road, Bayswater.

Publications of importance to the number of 73 have already been issued during its existence of five years' duration.

In connection with the Committee, an Industrial Section was formed with the view of according large industrial houses information on Fire matters. The offices of the Committee are at No. 1, Waterloo Place, S.W., and the Honorary Secretary is Mr. Ellis Marsland.

It is the British Fire Prevention Committee under whose auspices the International Fire Exhibition at Earl's Court has been organised, and a temporary office has been opened by the Committee off the Central Hall, *i.e.*, at the junction of these Galleries with the Empress Theatre.

*Lent by the Executive.*

536. Sketches showing Collapse of Cast Iron Columns and ordinary Concrete Work at the Glasgow Theatre Fire.
537. Two Forms showing Method of Obtaining Statistical Information regarding Theatre Fires.
538. Remnant Block of Wire Glass Skylight after Test.
539. Casement showing Plain Plate Glass with Copper Leading after Test of Fire of 45 Minutes' duration.
540. Skylight of Wire Glass after Test of 45 Minutes.
541. Treated Non-Flammable Wood Boarding after a Test.
542. Four Specimens of Concrete Remnants after a Test.
543. One Set of 73 Publications depicting Tests, etc.
544. Six Bound Volumes of Publications.
545. Ten various Quarto Forms showing Organisation of the B.F.P.C. and Specimen "Cautions," Reports on Fires, etc.
546. Album showing Plans of Great Fires in London, Provinces, and British Colonies.
547. Sixty different Home and Foreign Technical Journals dealing with Fire Matters.
548. Photograph of the Fire Section in the Building Trades Exhibition of 1901.
549. Plan of Standard Testing Chambers of B.F.P.C.
550. Sheets showing results of Tests with Fire-Resisting Doors.
551. Specimen Pyrometer as used at the Testing Station.
552. Model of Testing Chambers at the B.F.P.C. Station.
553. Plan of Testing Station and Grounds at Porchester Road, W.
554. Armoured Door after a Fire Test.
555. Ordinary Building Act Wrought Iron Door After a Test.
556. Ordinary Wrought Iron Door with Stiles and Rails both sides and fastened at 6 points, after a Test.
557. Door composed of Deal and Uralite covered externally with Thin Steel, after a Test of 90 Minutes.
558. Door composed of Deal and Uralite covered externally, after a Test of 90 Minutes' duration.
559. A 2½-inch Teak Door, constructed in three thicknesses, with the thicknesses joined together with Teak Pegs, after a Test of 75 Minutes' duration.
560. A 2-inch Four-Panel Door of Jarrah Wood, with head flush both sides, after a test of 60 Minutes' duration.
561. Section of Jarrah Flooring and Beam, after a Test of 2 Hours' duration.
562. Section of Jarrah Centre Post after a Test of 2 Hours' duration.
563. Two Sections of Solid Timber Flooring after Test.
564. Buckled Slab of Wired Glass after Test, showing Absence of Breakage.
565. Three Sections of Concrete after Test.
566. Portion of Partition constructed of Treated Wood.

- 567.. Casement of Glass with Luxper Prism Glazing, after Test.  
 568. A Collection of Photographs of Materials and Systems of Construction Tested at the British Fire Prevention Committee's Testing Station, and Reported upon by them.  
 569. A Collection of Photographs taken during Testing Operations at the Testing Station of the British Fire Prevention Committee during the Years 1901 and 1902.  
 570. A Collection of 132 Plates of Fire Insurance Offices collected by Mr. Cecil T. Davis, and lent to the British Fire Prevention Committee.

*Lent by Messrs. Eyre & Spottiswoode.*

571. Collection of Parliamentary Blue Books and Acts of Parliament.

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## THE EXHIBIT OF THE GREAT PROVINCIAL FIRE BRIGADES.

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These exhibits are intended to demonstrate some of the features of leading Provincial Fire Brigades employing professional Firemen in large Provincial centres. The various Brigades differ materially in organisation, management, and equipment, some forming part of the Police Force, some being in direct Municipal employ. Of Police Fire Brigades, the exhibits of the Liverpool Fire Brigade serve as notable examples; of Municipal Fire Brigades those of Edinburgh, Glasgow, and Birmingham.

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EDINBURGH, GLASGOW, LIVERPOOL, BIRMINGHAM, LEEDS.

*Lent by the City of Glasgow Fire Brigade;  
 W. Paterson, Firemaster.*

572. Collection of Framed Photographs, Glasgow Fire Brigade Station.  
 573. Street Fire Alarm as used in Glasgow, and Watch Room Indicator.

*Lent by the Glasgow Rate and Salvage Association;  
 Chief Officer, Postdown.*

574. White Waterproof Cover, Copper Hand Lamp, Sponge, Iron Bucket, Water Scoop, Swab, Hand Pump and Hose, Ceiling Piercer, Crowbar, Ambulance Box, Cap, Tunic and 1 Pair of Trousers, Pair Fireboots, Belt, 2 Pouches, and Hammer, Helmet, Chart of Fire Losses in Glasgow, Pocket Whistle, Fog Lamp, Axe (Door Opener), Photographs of Glasgow Salvage Corps and Station.



*Lent by the City of Liverpool Fire Brigade;  
Chief Officer, J. J. Thomas.*

- 575. Collection of 28 Photographs, Prints and Plans.
- 576. Appliances used by the Liverpool Fire Brigade:—  
Storm Lamp, Wilson Fire Escape, Hose Sling, Hydrant Pipe, Eastman Branch Pipe Holder, Cellar Pipe, as used in Basements and Ship Holds, Water Tower, 2½-inch Nozzle as used on largest Engine in Liverpool, Branch Pipe for use on Fire Escape, Hose Couplings, Ball Nozzle, Hand Pump, Overhead and Trolley Wire Cutters, Spreading Nozzle, Ball Nozzle, Hand Pump, Ball Jointed Nozzle, Ancient Type of Nozzle, Instantaneous Coupling Openers when pressure is on Hose, Hose Clamp, Smoke Helmet, Smoke Helmet and Tube, Dixon Line Gun, Chemical Extincter.

*Lent by the City of Birmingham Fire Brigade.  
Chief Officer, A. R. Tozer.*

- 577. Treadle Fire Engine, date 1725.
- 578. Small Hand Fire Engine, formerly the property of the City of Hereford.
- 579. Large Fire Alarm Box as in use by the City of Birmingham, containing Telephone, Ladders, Hand Pump, Buckets, Axe, and Ambulance Material.
- 580. Medium size Fire Alarm, containing Telephone, Hand Pump, Buckets, Axe, and Ambulance Material.
- 581. Hydrant, Standpipe and Key, as now in use.
- 582. Twin Branch, with 1-inch Jet Stand, two short Lengths of Hose and Couplings.
- 583. Steamer Suction, connecting Piece with two short Lengths of Hose and Couplings.
- 584. Print of Sun Fire Office, Fireman and Salvage Corps.
- 585. Etching of Hero's Fire Engine, date 120 B.C.
- 586. Etching of Van Der Heyde's Fire Engine, date 1690.
- 587. Etching of Ctesibius' Fire Engine, date 600 B.C.
- 588. Photograph, Group of Firemen, showing the old Insurance Office Uniform.
- 589. Photographs, showing Improvements in the Bros. Van Der Heyden Fire Appliances.

*Lent by the Chiswick Volunteer Fire Brigade;  
Hon. Sec., A. Jewell, Esq.*

- 590. Blick Clock. 1st Prize given by the late J. Blick, Esq., of Acton, for Manual Drills, to be won three times before becoming the property of the Brigade. Won by Chiswick, 1889, 1891, 1892.  
Lord George Hamilton Cup. 1st Prize, Ealing Parliamentary Division; Manual, 6-Men Drill.  
Hanwell Cup. Manual Drill, 1st Prize, 6-Men.

- Horley Cup. Manual Drill, 1st Prize, 1-Man.  
 Tottenham Cup. Manual, 2nd Prize, 6-Men Drill.  
 Tottenham Cup. Manual, Prize, 6-Men Drill.  
 Brighton Cup. Manual, 2nd Aggregate, 6-Men.  
 Willesden Cup. Manual, 1st Prize, 1-Man.  
 Brighton Cup. Racing, 1st Prize.  
 Brighton Cup. Racing, 1st Prize.  
 Chiswick Cup. Won by Turnham Green Contingent.  
 Chiswick Cup. Firemen's Race. 1st Prize.  
 Brighton Cup. Firemen's Race. 1st Prize.  
 Chiswick Cup, Challenge Cup. 1-Man Drill.  
 Two Cups (1st Prizes). 1-Man Drill.  
 Collection of Eighty-four Medals, Bars and Ribbons attached.  
 591. Painting, "Insurance Engines proceeding to a Fire."  
 592. Photographs of Chiswick Fire Station.  
 593. Print, "The County Council to the Rescue."

*Lent by the City of Edinburgh Fire Brigade.*  
*A. Pordage, Firemaster.*

#### UNIFORMS AND APPLIANCES IN USE IN EDINBURGH DURING BRAIDWOOD'S TIME.

594. Old Pattern Fire Uniform, consisting of Fire Coat, Duck Trousers, and Leather Helmet. (The different Colours denoting different Stations in the City.)  
 595. Braidwood's First C.I. Hydrant Box, with Lock and Key.  
 596. Hydrant and Standpipe.  
 597. Gauges for V.T. Couplings.  
 598. Fire Engine Head Lamp.  
 599. Leather Punching Machine for Rivetting Leather Hose.  
 600. One of Braidwood's First Edinburgh Engines, by Tilley, 1825, with Branch Pipe and Junction.

#### UNIFORMS AND APPLIANCES NOW IN USE.

601. Fire Uniform, Fire Coat, Trousers, Boots, Helmet, Belt, and Axe. Undress Uniform, Serge Tunic, Trousers. Full Dress Tunic.  
 602. Metal Branch Pipe,  $\frac{3}{4}$ -inch Nozzle.  
 602A. Hydrant and Stand-pipe.  
 602B. Suction Hydrant and 5-inch Suction Stand-pipe.  
 602C. Two Controlling Breechings, with Hose Connections.  
 602D. Pair of E.F.B. Aluminium Couplings.  
 602E. Length of Steamer's Suction, with Lever Couplings.  
 602F. Heating Apparatus for Heating Steamers fitted with Automatic Connections.  
 602G. Ladder (half-size model), with Life-Saving Sling.  
 602H. Canvas Dam for Steamers.  
 602I. Horse Collar and Suspending Gear.

603. Old Engine used in Haddington till replaced by a Steamer in October, 1902, with Branch Pipe. Date uncertain.
604. Picture of Mr. Jas. Braidwood as Superintendent of the London Fire Engines Establishment, from an old Photo.
605. Print of Braidwood's First Big Fire in Edinburgh.
606. Another View of the same.
- 607 and 608. Edinburgh Fire Brigade, Chief Street and Rose Street Divisions, about 1860, showing same Dress as Braidwood's time.
609. Testing the First Fire Escape in Edinburgh, 1861.
610. Braidwood's Book on the Fire Engine. Original Edition.
611. Seven Plates from Braidwood's Book.
612. Braidwood's First Fire Record Book, probably the oldest in the Kingdom.
613. Braidwood's Silver Badge, worn on his Fire Uniform.
614. Braidwood's Silver Whistle, used for giving Signals at Fires.
615. Book of Instructions issued to the Staff. Dated 1841.
616. Old Act of Edinburgh Town Council for "Quenching of Fire," 1703.
617. Collection of Photographs, Edinburgh Central Fire Station.
618. Hose Tender, Fire Escape, and large Steamer, with three Horses.
619. Firemaster's Tender.
620. Map of Edinburgh showing positions of Fire Stations.
621. Captain of Fire Brigade, Edinburgh, 1824.
622. Police Officer, 1824.
623. Print of a Notorious Hotel on Fire.
624. Photograph of New Fire Station, Edinburgh.

*Lent by Fire Brigade, Stockport. C.O., Howard Beckwith.*

625. Seven Photos of Vernon Mill Fire, Stockport.
626. Old Print of West of England Insurance Fire Brigade Turning Out.
627. Old Print of a Fire.
628. Photograph of Fireman J. B. Graham, who rescued 26 Lives at a Fire at Vernon Mill, Stockport, 1902.
629. Photograph of Howard Beckwith, Chief Officer.
630. West of England Insurance Badge.
631. Patent nozzle, 4 different sized jets, spray, and stop cocks.
- 632 and 633. Two curious remains of a watch and bottle from Fires.
634. Two Photographs of New Fire Station.

*Lent by the Corporation of Leeds, per Major G. G. Tarry.*

635. Photographs of Brigade Head Quarters. Turn-Out. Chemical Engine. Police Van and Ambulance.
636. Photographs of Jumping Sheet Drill. Fire Escape Drill. Firemen's Dwellings. Steamer at Work.
637. Photographs of Return from a Fire. Staff. Mounted Police. Engine House.



*Lent by John Hyde, Esq.*

638. Model, Metropolitan Fire Escape Extension Ladder, L.C.C.

*Lent by Capt. Arthur Mitchell, Cape Hill Brewery, Smethwick, Birmingham.*

639. Complete Working Model of Manual Fire Engine.

640. Photograph of the Cape Hill Fire Brigade.

*Lent by H. J. Reynolds, Esq.*

641. Model of Fire Engine, 17th Century.

*Lent by Arthur W. Cox, Esq., Alton Volunteer Fire Brigade.*

642. Working Model of Manual Fire Engine.

*Lent by the Waddington Fire Brigade. C.O., Harry Beghin.*

643. Model Fire Escape.

*Lent by the Fire Brigade, Glastonbury. F. A. Hake, Captain.*

644. Model of the New Glastonbury Fire Station erected in 1902  
by Capt. F. A. Hake.

645 to 648. Four Old Fire Plates.

## EXHIBITS ILLUSTRATING THE HISTORY AND WORK OF THE METROPOLITAN FIRE BRIGADE (LONDON).

The exhibits arranged under this title have been primarily gathered with a view of showing the vast area and character of fire risk that has to be protected by the Metropolitan Fire Brigade of London. The character of the fires, as illustrated by photographs and other illustrations, the nature of the fire stations in which the fire-fighting forces are housed, and the features of a Fireman's life in the Metropolis. Further, these exhibits are to stand as a memorial to the great organiser of the London Fire Brigade—Sir Eyre Massey Shaw, and as a tribute to the hero of the old "fire engine establishment," Braidwood, who died doing his duty, June 22nd, 1861.

With this end in view, the principal exhibit is an enormous map of London, measuring 19 ft. by 11 ft., on which almost every building of importance is shown in detailed plan, the various marks indicating the character of the construction and the nature of the fire risk in a manner which is unique in Europe, and can only be elsewhere found in Great Britain, in Canada, in the United States of America, or in such of our Colonial possessions where

cities have been mapped out by the same able hands, viz., those of Charles E. Goad.

On either side of this map, in the first place, will be found the portraits of Sir Eyre Massey Shaw and relics of the great Braidwood. Next will be found a special collection of photographs of all the Fire Stations in the Metropolis; next, groups of Firemen and items of a Fireman's life. Specially, there are many plans of the great conflagrations we have seen in the Metropolis, such as the great Tooley Street Fire, the Cripplegate and Barbican fires, the fires of Shoreditch and in the Dock district, and with these plans are many photographs taken from the actual sites of fire and showing the devastation caused.

According to the latest report published at the time of going to press, viz., the one ending 1901, the Metropolitan Fire Brigade comprised:—

- 1 Chief,
- 1 Second Officer,
- 1 Third Officer,
- 6 Superintendents,
- 7 District Officers,
- 73 Station Officers.
- 147 First-class Firemen,
- 133 Second-class Firemen,
- 598 Third and Fourth-Class Firemen,

with 153 coachmen, 36 men under instructions, 34 mechanics, 17 pilots, and 18 other officers.

The equipment comprised no less than 65 land fire engine stations and four floating or river stations, with 17 street or sub-stations.

The material included 68 land steam fire engines, with over 40 miles of hose; there were 174 hand fire escapes; the number of horses used was 260; the number of fire "Immediate" call points in London, 694.

During the year the total number of fires was 3,684.

The average of the last ten years was 3,407; 97 lives were lost during 1901, and 297 were endangered.

*Lent by E. O. Sachs, Esq.*

- 649. Three Photographs, Metropolitan Fire Brigade:—Turn-out, Group, Headquarters.
- 650. A Collection of Photographs, illustrating the Fire Stations of the Metropolitan Fire Brigade, London, in 1902, with the view of showing their Character, Size, Distribution, and Relative Modernity.
- 651. A Collection of Photographs of Turn-Outs illustrating the General Equipment and *Personnel* of the Metropolitan Fire Brigade, London.
- 652. A Collection of Photographs of Groups of Firemen illustrating the Physique of the *Personnel* of the Metropolitan Fire Brigade, London.

- 653. A Collection of Photographs of Groups of Fire Metropolitan Fire Brigade, showing Prize W. "Smart Work" Cup and the Football Team and Club.
- 654. Photographs showing Handling of Horsed Fire Escapes in the Metropolitan Fire Brigade.
- 655. Photographs showing Experimental Use of Wireless Telegraphy at a Suburban Station of the Metropolitan Fire Brigade.
- 656. Photographs showing Use of Long Ladders in the Metropolitan Fire Brigade.
- 657. Photographs showing River Floats and Tugs of the Metropolitan Fire Brigade, London.
- 658. A Collection of Photographs illustrating the Work of the Drill Class at the Head Quarters of the Metropolitan Fire Brigade.
- 659. A Collection of Photographs of Notable London Fires.

*Lent by London Stereoscopic and Photographic Co., Ltd.*

- 660. Photograph, Great Fire in Cheapside.
- 661. Photograph, Great Fire in Thorley's Food Factory.
- 662. Photograph, Great Fire in Clerkenwell.
- 663. Photograph, Great Fire in Cripplegate.

*Lent by Chas. E. Goad, Esq.*

- 664. Maps and Plans of Great Fires:—London General Key, showing positions of Fires that occurred in London in 1902; New Westminster, Alexandria, Port of Spain, Six Sheets Detail Work, Ottawa-Hull, Montreal, Cripplegate, Judds, St. Mary Axe, Dublin, Finsbury, Minorities, Toronto, Bermondsey, Glasgow, Sunderland, Barbican, St. Johns, Newfoundland.

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## SALVAGE CORPS EXHIBITS.

The Salvage Corps of Great Britain is maintained by the Fire Insurance Companies, and comprises primarily the London Salvage Corps and the Salvage Corps of Glasgow and Liverpool. There are also volunteer organisations in different parts of the world. The London Salvage Corps, which has five stations distributed over the more densely populated area of the Metropolis, has its headquarters at Watling Street, Southwark, with an establishment of a chief officer and 105 men. The Corps was founded in 1866 and stands unique in the world as the best-



organised and disciplined corps, remarkable for its businesslike work and the smartness of its *personnel*.

Besides the exhibits of the London and Liverpool Salvage Corps for the Loan Section, the London Salvage Corps has a fully-equipped station in the Western Gardens of the Exhibition Grounds, duly horsed and manned, to attend actual fires.

*Lent by the London Salvage Corps; C.O., Lieut.-Colonel Fox.*

665. Clothing: Fire Rig, Helmet, Axe, Belt, Pouch, and Pocket Line, Tunic, Trousers, Fire Boots and Leggings; Undress Rig: Cap and Cover, Tunic, Trousers, Private Boots, Grey Shirt; Working Rig: Cap, Dungaree Jacket and Trousers, Silk Handkerchief, Guernsey, Private Boots. Sway Bar, Hand Pump and Hose, Pair Copper Hand Lamps, Mop, Bass Broom, Pair Pole Chains and Hooks, Pair Rein Hooks, Pair Pillar Reins complete, Stall Chain, Pair Trace Hooks, Hurricane Lamp, Pair Fog Lamps, Pair Scoops, Sponges, Padlocks and Fittings, Ambulance Box, Deck Swabs, Tarred Swab, Duty Book and Case, Large Axe, Crowbar, Sieve, Shovels, Picks, Auger, White Cloth, Black Cloth, Pair Gas Tongs, Bag Waste, Bag Sawdust, Grapnel and Line, Pails, and Pair Short Ladders.

*Lent by James Rigg, Esq.*

666. Portion of the New River Company's 6-inch Bore Water-Main, made from the trunks of trees, and showing the method of forming the joint connecting two of these pipes. Found during the excavations in the Minories in 1901. These pipes varied from 4 to 5 feet in length.

"The Resvoir called the New River is a circular bason now thrice its original size, enclosed with a brick wall, whence the Water is conveyed by sluices into various large cisterns of brickwork, from which it passes into a subdivided state by means of large wooden pipes of six or seven inches bore called mains and Riders, and distinguished by names appropriated to their several districts to all parts of the Metropolis. The distribution of the Water from these pipes to the numerous houses which are supplied by it exhibits a very wonderful system of Hydraulics." ("History of Islington," by J. Nelson, 1811.)

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## EXHIBIT OF THE LONDON PRIVATE FIRE BRIGADES' ASSOCIATION.

The primary object of this Association is:—

1. To promote and improve the Private Fire Service generally.
2. To provide a better means of intercourse among Private Fire Brigades by arranging Tournaments, Displays, and such

other assemblies as shall conduce to greater efficiency and keener interest in voluntary service in the protection of life and property from Fire.

3. To promote uniformity in drill and in other matters connected with the Private Fire Service.

4. To encourage the establishment of Private Fire Brigades on premises not at present protected, and to give advice for the formation and working of such Brigades.

This Association is now in its fourth year, and comprises some 24 private Fire Brigades in London.

The exhibit tends to show its scope, which includes the encouragement of smart work by competitions for Cups and Prizes, the principal Cup being the Championship Cup for an aggregate of general smartness in one-man drill, four-man drill, hand-pump drill, three-man drill, and two-man drill. The Chairman is Mr. Church Brazier, St. John's Ambulance Association, London, N.

*W. J. Rushforth, Esq., Hon. Sec.*

- 667. The "Marshall" Challenge Cup, for best Aggregate in Competition Drills; held by Railway Clearing House Fire Brigade.
- 668. The "Isaac" Challenge Cup, for Hand Pump Drill; held by Grove House Fire Brigade (Spencer, Turner & Bolero, Ltd.).
- 669. The "Hebbert" Cup, for "One Man" Hydrant Drill; held by G. Packham, Railway Clearing House Fire Brigade.
- 670. The "First Aid" Cup, for Ambulance Competition; held by Railway Clearing House Fire Brigade.

*Lent by the Bespoke Tailoring Co. Fire Brigade.*

- 671-672. Two Photographs of Old Premises after Fire in Jewin Street.

*Lent by Whitbread's Brewery Fire Brigade.*

- 673. Photograph of Men at Wet Drill.
- 674. Silver Cup.

*Lent by Clarnico Fire Brigade.*

- 675. Photograph of Brigade.

*Lent by Debenham & Co.'s Fire Brigade.*

- 676-677. Two Silver Cups.
- 678-679. Two Testimonials for Services Rendered.

*Lent by Institute Fire Brigade, Borough Polytechnic;  
C.O., W. R. Hunting.*

- 680. Photograph, Private Fire Brigade at Work.
- 681. Photograph, London Firemen on Escape Duty.
- 682. Photograph, Metropolitan Fire Brigade at Drill.
- 683. Print, London Fire Engine at Work.

*Lent by the Merryweather Fire Brigade.*

684. Illuminated Certificate for Championship at Competitions of London Private Fire Brigades, 1899.
- 685-686. Two Photographs, Group of Officers and Men from Brigades Affiliated to London Private Fire Brigades' Association, 1899 and 1902.

*Lent by Meux's Brewery Fire Brigade, per H. L. Jacobs, Esq.*

- 687-688. Photographs of Private Brigade in Full Dress, and Undress.
689. Branch Pipe, bearing Name and Date.
690. Photographs illustrating Fire at Horse Shoe Hotel, attended by above Brigade.
691. Relic of Fire in Brewery showing Grains of Malt embedded in the Molten Lead from Roof.

*Lent by the United Asbestos Co., Ltd.*

692. Model of Fire-Resisting Curtain.

**METROPOLITAN ASYLUMS BOARD EXHIBITS.**

The question of ambulance service in connection with fire-brigade work has become one of great importance.

*Lent by The Metropolitan Asylums Board,*

693. Model of the Metropolitan Asylums Board's Western Ambulance Station, Fulham.
694. Model of a Brougham-shaped Ambulance Carriage.
695. Model of a "Van" Shaped Ambulance Carriage.
696. Model of a Riverside Station for the Embarkation of Small-pox Patients.
697. Model of Ambulance Steamboat "Geneva Cross," used for the Conveyance of Small-pox Patients to the Isolation Hospitals.
698. Model of Small-pox Hospital Ship "Castalia."

*Lent by His Grace the Duke of Newcastle.*

*(per A. Jacoby, Esq., M.P.)*

699. Model of Nottingham Castle, made for William Cavendish, First Duke of Newcastle, who commenced the building in 1670. The Model was used at the Trial of the Reform



Bill Rioters, who were implicated in the Burning of the Castle on October 10th, 1831. The Model was purposely burnt to show the actual condition of the building after the Fire, and representing the present building before its Restoration by the Corporation of Nottingham as the Municipal Gallery of Art.

*Lent by Captain J. B. Deane.*

- 700. Model of Shand-Mason Steamer (old pattern).
- 701. Model of Fire Escape.

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## ARCHITECTURAL EXHIBITS.

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These were primarily collected to show modern ideas in the construction and design of Fire Stations, the arrangement of Factories with the view of safe-guarding against Fire, and the planning and construction of Theatres with the view of lessening the risk of Fire and possibilities of loss of life through panic.

In respect to the Fire Stations, the system of planning varies materially in different countries and different districts, more particularly in reference to the location of the horses in relation to the engines. In Factory planning the great question of the day is primarily that of isolation and separation of buildings into different risks, both by vertical and horizontal separation. Regarding Theatre safety, the primary principle appears to be to-day the most rapid possible means of exit for all concerned by at least two different routes, combined with the construction of fire-resisting materials and the furnishing and equipment with non-flammable materials.

*Lent by J. C. Pardoe, Esq., A.M.I.C.E., Council Office, Barry.*

- 702. Three Drawings and Two Photographs, Barry Fire Station.

*Lent by Messrs. Mawson & Hudson.*

- 703. Photograph of New Central Fire Station, Bradford, Yorks.

*Lent by Rushden Fire Brigade; C.O., G. R. Turner.*

- 704. Three Photographs, Fire Brigade Station, Rushden.

*Lent by W. B. Madin, Esq.*

- 705. Ground Plan of Fire Station, Rushden.

*Lent by F. W. Lacey, Esq., Borough Engineer, Bournemouth.*

- 706. Photographs and Plans of New Central Fire Station at Bournemouth.

*Lent by Messrs. Woodhouse, Willoughby & Langham.*

707. Three Drawings of Intended New Buildings, to comprise Manchester Chief Fire Station, Branch Police Station, etc.

*Lent by J. E. Swindlehurst, Esq., M.I.C.E.*

708. Five Drawings, New Fire Station, Coventry.

*Lent by Fire Brigade, Glastonbury. Fred A. Hake, Captain.*

709. Plans drawn by G. Alves, Borough Surveyor.

*Lent by W. Inkster, Esq., Firemaster for Aberdeen Town Council.*

710. Old Manual Fire Engine, 1801.  
711. Three Drawings, Fire Station, Aberdeen.

*Lent by Edwin O. Sachs, Esq.*

712. "Modern Opera Houses and Theatres," by Edwin O. Sachs, in 3 Volumes.  
713. "Stage Construction," 1 vol.  
714. "Fires at Public Entertainments," 1 vol.  
715. "Notes on Foreign Fire Brigades," 1 vol.  
716. "What is Fire Protection?" 1 vol.  
717. Collection of Plans and Drawings of Old and New Theatres with Fire-Resisting Curtains, etc.  
718. Sir Henry Irving's Safety Theatre (3 Plans), Ground Floor, Circle Plan, and Longitudinal Section.  
719. Six Photographs of Modern Stage Construction at Royal Opera House, Covent Garden.  
720. Album, showing Views of Old Stage Mechanism of the Royal Opera House, Covent Garden, as prior to the new Stage Mechanism and the Installation of the Modern Stage Mechanism in Course of Construction.

*Lent by Percy Robinson, Esq.*

721. Plans and Elevations, Leeds Corporation Central Fire Station.

*Lent by Joseph Norton, Esq.*

722. Perspective Drawings and Plans of West Bar Fire Station, Sheffield.

*Lent by the Wimbledon Urban District Council.*

723. Plans of the proposed New Central Fire Station for Wimbledon.

*Lent by the Tonbridge Urban District Council.*

724. Old Manual Fire Engine, Invented by R. Newsham, of London about the year 1721. This Engine has been used at Farm Fires until quite recently.  
725. Perspective View of Tonbridge Fire Station, with Plans.  
726. Photograph of Tonbridge Fire Station, with Engines.

*Lent by the Stafford Fire Brigade; C.O., W. Brookfield.*

727. Small Manual Fire Engine, dated 1774.

728 to 739. Collection of Twelve Cups.

740. Gold Wreath won at Rouen.

*Lent by T. G. Dyson, Esq., Fire Brigade, Windsor.*

741. Bronze Statuette presented by the City of Lyons to the British Fire Brigade Contingent, and afterwards presented to the Officer in Command.

742. Engraving, Groups at Havre Congress.

743 and 744. Two Silk Banners presented to the Windsor Fire Brigade, in connection with the Coronation.

745. Photograph, Fire Brigades Review at Windsor.

746. Photograph, Fire Brigades Review at Blenheim Park.

747. Photograph, French Fire Brigades Visit to Eton College.

748. Gold Medal presented by the French Government to T. G. Dyson, Esq.

749. Gold Medal presented by the American Representatives, 1896.

750. Silver Gilt Placquet, Paris, 1900.

751. Silver Gilt Medal, Paris, 1900.

752. Silver Medal, Paris, 1900.

753. Silver Gilt Medal, Ghent, 1898.

754. Silver Medal, N.F.B.U., 1896.

755. Silver Medal, Havre, 1892.

756. Commemoration Medal, Silver Jubilee, 1887.

757. Commemoration Medal, Diamond Jubilee, 1897.

758 and 759. Two Commemoration Medals, Coronation, 1902.

760 and 761. Two French Federation Honorary Members' Insignias.

764. Bronze Commemoration Medal, Milan.

765. Fire Brigade Exhibition, 1894.

766. Badge of 22nd Annual Convention Fire Engineers.

767. Badge of the Windsor Fire Brigade.

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## LIGHTNING EXHIBITS.

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The Lightning Exhibits have been arranged with the co-operation of the Members of the Lightning Research Committee, under the guidance of Mr. Hands, and are intended to demonstrate the great loss of property incurred through fires caused by lightning, and to show the various principles adopted in modern safeguards against such catastrophes. The large map prepared will show the area over which fires caused by lightning are distributed; the photographs will show many examples of curious effects by lightning, whilst among the relics will be found a most curious example lent by the Royal College of Surgeons,



*Lent by the Lightning Research Committee.*

Drawings showing the Behaviour of Lightning on certain Buildings Struck and Damaged, in spite of their being provided with Lightning Conductors:—

- 768-9. Possingworth House, Cross-in-Hand, Heathfield, Sussex. Struck by Lightning on 17th June, and 8th August, 1902. (Two Views.)
- 770. New St. Pancras Church, Euston Road. Struck 1st July, 1902.
- 771. St. Andrew's Church, Marks Tey. Struck 7th June, 1902.
- 772. Photograph of Wallpaper. Cottages, Cubbington, Warwickshire. Struck by Lightning 28th February, 1902.
- 773. Factory Chimney struck by Lightning.
- 774. St. Michael's, Highgate, N. Struck by Lightning 3rd January, 1903.

*Lent by Messrs. J. W. Gray & Son.*

- \*771. Piece of Copper Rope Conductor through which lightning passed, after damaging Stradbroke Church, Suffolk.
- \*772. Set of Lightning Conductor Points off Chimney Shaft at Hampton Gas Works, struck by lightning, but shaft not damaged.
- \*773. Photograph, "Prince of Wales" Inn, Bilston.
- \*774. Photograph, Wesleyan Church, Bradley.
- 775. Photograph, Cowdin Church, Bradley.
- 776. Photograph, Hallingbury Church.
- 777-8. Two Photographs, Swanscombe Church.
- 779 to 781. Three Photographs, Little Staughton Church (before and after damage).
- 782. Map of England and Wales, showing position and nature of damage by lightning during years 1898-1902.
- 783-784. Two Photographs, St. Andrew's Church, Collyweston, Northants.
- 785. Photograph, St. Nicholas Church, Islip, Northants.
- 786-787. Two Photographs, Cold Overton Church, Leicestershire, taken the day before being destroyed.
- 788. Photograph, Harringworth Church.

*Lent by the Royal College of Surgeons of England, Lincoln's Inn Fields, London, W.C.*

- 789. Clothes of a Man who was struck by Lightning and stripped naked, but not killed, June 8th, 1878.

The case is described in detail by Dr. Wilks, of Ashford, in the Transactions of the Clinical Society for 1880. The man, a labourer, was, at the time he was struck, drenched with rain. He was thrown down, somewhat burned, and had a broken leg, but was not otherwise hurt, and in the end recovered perfectly. His clothes were stripped off and strewn in line across the field to a distance of twenty-two yards. It will be seen that they are most of them torn to tatters.

The boots, which were thick, strong, and new, shared the same fate, and were torn from his feet. His watch had a hole burnt right through it, as if by a soldering iron, and portions of clothing near to it were also burnt. His watch chain was almost entirely destroyed, only a few fused links remaining.

The evidences of fire occurred only when the latter was in contact with a metal.

The man said he first felt a violent blow on the chest and shoulders, was enveloped in a blinding light, and then hurled into the air. He averred that he never lost consciousness. He was at first, when taken to the hospital, very deaf, and stupidly quiet. It is to be supposed the wet condition of the man's clothing increased its power of conduction, and thus saved his body and his life.

The electric current passed downwards outside the body, and caused everywhere the sudden production of steam, which, by its expansion, tore the clothing off.

*Lent by Geo. Nye, Esq., Brenchley, Kent.*

790. Portions of 2½-inch diameter Plate and an Egg Boiler shattered by Lightning at Furnace Hill, Brenchley.

*Lent by Messrs. J. Jones & Sons, Ltd.*

791. Photograph of Interior of Office after Fire caused by Lightning attributed to Defective Earth Wire to Telephone.

*Lent by Mrs. Margaret Wright.*

792. Cap worn by Mr. William Musgrove, when killed by Lightning.

*Lent by Henry C. Scott, Esq.*

793. Three Photographs of an Ash Tree in Kenilworth Park, Warwickshire. Descriptive Title, "A Beauty's Downfall."

*Lent by Messrs. Dixon & Corbett and E. S. Newall & Co., Ltd.*

794. Two Photographs of St. Gabriel's Church, Cricklewood, before and after being damaged by Lightning, July, 1900.  
795. Three Photographs of Swanscombe Church, Kent, before and after being struck by lightning.  
796. Photograph of Lightning, taken by Instantaneous Process with Exposed Plate in 1893.

*Lent by G. H. Welsford, Esq., F.C.S.*

797. Photograph of the Effects of Lightning on the Spire of Aldenham Church, Herts.

*Lent by George W. M. Gott, Esq.*

798. Two Gate Posts struck by Lightning in 1892 on Fence Piece Farm, Barkingside, Ilford.

*Lent by Mrs. Margaret Wadeson.*

799. Photograph of Steeple and Tower of Bramham Church, Yorks, struck by Lightning on Whit-Sunday, 1902.

*Lent by Rev. E. E. Stock, M.A.*

800. Photographs of Roccliffe Church, near Carlisle, before and after being struck by Lightning.

*Lent by F. Weber, Esq.*

801. Photograph of a Flash of Lightning at Ostend.

*Lent by the Hon. Corporation of Trinity House.*

802. Water Colour Drawing, "Dungeness High Lighthouse," showing Damage caused by Fire.

*Lent by Killingworth Hedges, Esq.*

803. Old Lightning Conductor from St. Paul's Cathedral.  
804. Fulgurites from the Sand Hills at Kensington, N.S.W.  
805. Meteorite picked up near Oxford.  
806. Stranded Copper Conductor removed from St. Paul's Cathedral.  
807. Old Joint from Conductor, St. Paul's Cathedral.  
808. Piece of Earth Wire as left by Lightning, Witherenssea Signal Box, 1902.  
809. Piece of Wire connecting Line with Instrument, do. do.  
810. Piece of Wire connected to Bell Instrument, do. do.  
811. Piece of Lightning Conductor from Dalston Church struck 1901.

*Lent by A. F. Clement, Esq., North British Railway.*

812. Relics of Gong and Case destroyed by Lightning in Signal Cabin at Leadburn, Peeblesshire, 1901.  
813. Photograph of a Tree struck by Lightning in Black Wood, Iver Heath, Bucks.

*Lent by the Sandycroft Foundry Co., Ltd.*

814. Two Photographs, Sandycroft Fire Brigade.

*Lent by C.O. Eley, Central Fire Station, Leicester.*

815. Leicester Boro' Fire Brigade, date 1857.  
816. Leicester Boro' Fireman.  
817. Leicester Boro' Fire Brigade, with Steamers; present day.  
818. Brass Badge of Sun Fire Insurance Brigade, 1857.  
819. Felt Helmet worn by Volunteer Firemen in 1872.



*Lent by Edwin O. Sachs, Esq.*

- 820. Series of Sketches of the Berlin Fire Congress of 1901, by Kaskeline.
- 821. Portrait of the late Chief Officer Stude, of the Berlin Royal Police Fire Brigade.
- 822. Eight Photographs of St. Petersburg Fire Brigade, taken in 1899.
- 823. The First Berlin Fire Tests.
- 824. The New York Testing Ground.
- 825. Brooklyn Testing Ground.
- 826. The Denver Testing Huts.
- 827. Six Photographs, showing Views of the Ruins of the Cripple-gate Fire.
- 828. Ten Photographs, showing Work of the Vienna City Fire .Brigade.

*Lent by Percy B. Hollick, Esq.*

- 829-830. Flint-lock Tinder Lighter, and Charley's Rattle.

*Lent by Stourbridge Fire Brigade; C.O., J. Donaldson Harward.*

- 831. Leather Helmet, with Flaked Brass Strap.

*Lent by J. D. Wheeler, Esq.*

- 832 to 835. Four Old-pattern County Fire Brigade Tunics.

*Lent by L. A. Silas, Esq.*

- 836. Model of G.W. Ry. Express Engine that caught Fire during journey to South Wales.

*Lent by Professor C. Bach.*

- 837. "The Construction of Fire Engines" (2 volumes).

*Lent by the Central Fire Station, Dublin (Thos. P Purcell, C.O.)*

- 838. Photograph, Dublin District Fire Station.

*Lent by E. R. Hudson, Esq.*

- 839. Piece of Melted Glass from the Alexandra Palace Fire.

*Lent by John W. Shaw, Esq., Fire Station, King's Lynn.*

- 840. Stand Pipes Invented in 1868 by Joseph Turner, of King's Lynn, and in use until 1899.

*Lent by S. C. Butler, Esq.*

- 841-842. Old-pattern County Fire Office Tunic and Leather Helmet.

*Lent by Charles F. Hayward, Esq., F.S.A., F.R.I.B.A.*

- 843. Water-colour, Fire Station, Harrow-on-the-Hill.

*Lent by H. Hodge, Esq.*

- 344. Drawing of the First Self-Propelled Steam Fire Engine.
- 845. Photograph of the Inventor, Mr. Paul Rapsey Hodge.

*Lent by the Queen's Ferry Chemical Works Fire Brigade.*

- 846. Two Photographs, Fire in Anthracene Shed.

*Lent by Towcester Fire Brigade. C.O., T. M. Crow.*

- 847. Old Hand Engine, Helmet, and Length of Hose.

*Lent by R. Graham, Esq., Fire Brigade, Hampton.*

- 848. Seven Photographs of N.F.B.U. Camps, Steamers, and Shields.

*Lent by C.O. Meier, Brandweer, Amsterdam.*

- 849. Photograph, Fire Station, Amsterdam.

*Lent by C.O. Butler, Fire Station, High Wycombe.*

- 850. View of High Wycombe Fire Station.

*Lent by Mons. E. L. Perronne.*

- 851. A Collection of Seven Photographs of a Paris Fire Station.
- 852. Book of Views, Paris Fire Station.

*Lent by Chief Officer W. Brind, Walton-on-Thames.*

- 853. Engraving of Fire Fighting about 250 years ago.

*Lent by the Bootle Fire Brigade; C.O. Roberts.*

- 854. Three Photographs of Fires at Bootle.

*Lent by Mrs. Graves.*

- 855. Photograph, Ruins of the Graves Gallery, burnt at the time of the Fire at Her Majesty's Theatre.

*Lent by Mons. Louis Du'Helon.*

- 856. Five Photographs, Altona Fire, Schleswig-Holstein.

*Lent by Reginald Kemp, Esq.*

- 857. Sermon preached before the King, 1666, at the Solemn Fast for the late Fire of London.

*Lent by Walter M. Hitchcock, Esq.*

- 858. Series of Photographs of the Geelong (Australia) Fire Station, Engine, and Officers of the Brigade, founded in 1854.

*Lent by W. E. Pitfield Chapple, C.O. Axminster Fire Brigade.*

859. Six Brass Buttons West of England Fire Insurance Company.

*Lent by Mrs. E. H. Canham.*

860. Seventeen Tea Plates burnt into a solid mass, a relic of the Chicago Fire, 1871.

*Lent by Mr. Benjamin.*

- 860a. Miniature of the Empress Josephine, by Isabel, burnt at at the time of the Commune.

*Lent by the Tenterden Fire Brigade.*

861. Ancient Fire Manual.

*Lent by Captain John Murray, Ashbourne.*

862. Old Manual Fire Engine, name plate by Kings Hadley & Simpkins, Long Acre.

*Lent by Edgar Girling Barnard, Esq., Stowmarket.*

863. Antique Fire Engine, for 200 years the Parish Engine at Mendelsham, Suffolk.

864. Original Leather Buckets.

*Lent by Bexley Urban District Council, Public Hall, Bexley Heath, Kent.*

865. Phillips' Manual, period 1774.

*Lent by Thomas Crowther & Son.*

866. Old Manual Engine.

*Lent by Messrs. Shand, Mason & Co.*

867. Old Manual Engine, 1860.

*Lent by the Exeter Fire Brigade; C.O., W. Pett.*

868. Two-Men Manual Fire Engine, 1866.

Note.—The above seven Engines are used in the Historical Procession in the Spectacle "Fighting the Flames," Empress Theatre.

*Lent by Kettering Fire Brigade; Captain, W. Riddle.*

869. Old Manual Fire Engine, dated about 1735, and Long Branch.

*Lent by Messrs. H. Brown & Sons.*

870. Old Manual Fire Engine.

*Lent by Basingstoke Fire Brigade; Hon. Sec., W. E. Cartter.*

871. Manual Fire Engine, date 1769.



*Lent by the Rt. Hon. Earl Cowper, K.G.*

872. Old Fire Engine from Brocket Hall, Herts.

*Lent by John Goddard, Esq.*

873. Old Manual Fire Engine from Hampstead Norris, Berks.

*Lent by the Harlow Fire Brigade; Captain, Sam Deards.*

874. Old Manual Fire Engine.

*Lent by the Penzance Fire Brigade; C.O., R. W. Nicholas.*

875. Old Manual Fire Engine.

*Lent by Stratford-on-Avon Fire Brigade; C.O., W. Harris.*

876. Very old Manual Fire Engine and Copper Branch Pipes,

877. Six very old Leather Buckets.

*Lent by the Ruthin Fire Brigade.*

878. Old Manual Fire Engine, presented by Colonel Cornwallis West, Ruthin Castle.

*Lent by the Rector and Churchwardens of the United Parishes of St. Magnus the Martyr, St. Margaret's, and St. Michael's; J. Procter, Esq., Churchwarden.*

879. Manual Fire Engine, date 1836.

880. Curricie Fire Engine, date 1836.

881. Four Leather Fire Buckets.

*Lent by the Milton Fire Brigade, Lydbrook. C.O., E. N. Craig.*

882. Old Manual Fire Engine, made in 1829.

*Lent by the Fire Brigade, Leighton Buzzard.  
Hon. Captain C. F. Ruggles.*

883. Small Fire Engine and Hose, dated about 1800.

*Lent by the Fire Brigade, Oundle, per R. Knight, Esq.*

884. Old Manual Fire Engine.

*Lent by Alfred Haddow, Esq., Hon. Sec., Fire Brigade, Shefford.*

885. Photograph of Captain Johnson, Shefford Fire Brigade.

886. Old Manual Engine, by "Phillips," dated 1774.

887. Piece, consisting of Several Musket Locks, remains from a Fire at the Tower of London, October 30th, 1841.

889. Photograph, Shefford Fire Brigade.

*Lent by The Volunteer Fire Brigade, Farnham.*

890. A Very Old Manual Engine, with well, with both ends open to receive water from buckets, with long branch, movable in any direction, and Two Rails, so that four men could stand and tread with their feet to help hand-pumpers.
891. Ancient Fire Hook.

*Lent by Alnwick Urban District Council Fire Brigade, Alnwick.*

892. Old Manual Fire Engine with Original Nozzle.

*Lent by Captain W. T. Dunkley, Rothwell Fire Brigade.*

893. Old Engine.

*Lent by the Corporation Fire Engine Committee, Great Grimsby.*

894. Old Manual Fire Engine.

*Lent by Tenterden Fire Brigade, Kent. (A. E. Nunn, C.O.)*

895. Ancient Fire Manual.

*Lent by the Council of the Borough of Lostwithiel, Cornwall.*

896. An old Manual Fire Engine.

*Lent by the Grantham Fire Brigade, Guildhall, Grantham.*

897. Old Manual Engine, date 1792.
898. Pierced Tin Lanterns and Leather Helmet.

*Lent by John Worwood, Esq.*

899. Old Manual Fire Engine, built by Lilley, of London, in 1834.  
The Property of the Associated Portland Cement Manufacturers, Ltd.

*Lent by the Corporation of the Borough of Penzance.  
R. W. Nicholas, Head Constable.*

900. Old Manual Fire Engine.

*Lent by Captain W. T. Wake, Fire Brigade Station,  
Weston-super-Mare.*

901. Old Manual Engine and Two Lengths of Hose.

*Lent by J. Herbert Dyer, Esq.*

902. Old Steam Fire Engine, 1864. First Provincial Steamer, used by the Alton Volunteer Fire Brigade for 29 years.
903. Photographs, First Meeting of N.F.B. Union at Oxford, 1887.

*Lent by the Fire Brigade, Whittlesey, per Geo. T. Nichols, Esq.*

- 904. Manual Fire Engine and Leather Buckets.
- 905-6. Two Old Stack Hooks.
- 907-8. Two Photographs, Visit of the British Contingent to the Fire Congress at the Paris Exhibition, and the N.F.B.U. Camp at Basingstoke.

*Lent by C.O. Alfred Crouch, Esq., Worthing Fire Brigade.*

- 909. Ancient Manual Fire Engine, formerly the Parish Engine in a Sussex Town.
- 910. A Metal Gong, formerly used for calling Fire Brigade together.
- 911. A Cast-iron Sash-weight (originally straight), discovered after a Fire at the Colonnade, Worthing. The concentration of heat in centre of weight was remarkable for the iron to have been in a molten state, during which nails, a hinge, and other falling materials got embedded in the iron.

*Lent by the Lewes Fire Brigade; J. W. Briggs, Esq., Sec.*

- 912. Old Manual Fire Engine.

*Lent by the Brackley Fire Brigade, Brackley, Northants.*

- 913. Old Fire Engine.

*Lent by Sir Thomas Henry Tucon.*

- 914. Old Fire Engine.

*Lent by the Barnes Fire Brigade. (G. Bruce Tones, C.O.)*

- 915. An old Fire Engine presented to the Parish of Mortlake by the Princess Amelia, daughter of George II. in the year 1758.

*Lent by the Fire Brigade, Enfield, per W. J. Graham, Esq.*

- 916. Old Manual Fire Engine.

*Lent by the Fire Brigade, St. Albans. W. H. Thorpe, Captain.*

- 917-918. Old Manual Fire Engine, date about 1740, and Old Leather Pails.

*Lent by the Christchurch Fire Brigade; C.O., C. Burry.*

- 919. Ancient Fire Engine, with Delivery Nozzle.



# GUIDE TO INDUSTRIAL EXHIBITS.

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## The German Court.

(DUCAL HALL.)

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The German Court is intended to demonstrate the great development of the Fire Service and fire-preventive measures of the German Empire, and is a collection unique of its kind, no complete exhibit dealing with the historical, art, municipal, and commercial sides of the subject having as yet left any country to be exhibited elsewhere in the same way as in this case.

The arrangement of the German Court has been in the hands of a special German Sub-Committee of considerable influence, which was formed at the instance of the B.F.P.C., whose representatives visited Berlin and met with a most hearty reception.

The German Committee comprises the following gentlemen:—President, Commerzienrath Jacob; Vice-President, Councillor Bamberg (Berlin Corporation); Hon. Secretary, Chief Officer Giersberg (Berlin Royal Police Fire Brigade); Mr. Busch, Chief Officer Dittman (Bremen), Crown Surveyor Eggert, Mr. Haac, Crown Surveyor Herzberg (Berlin), Crown Surveyor Jaffe (Berlin), Mr. Oppen, Dr. Prange, Mr. Singer, Privy Councillor Stuebben (Cologne), Dr. Weinitz, Chief Officer Westphalen (Hamburg). Of these gentlemen Chief Officer Westphalen acted as Chairman of the Fire Appliances' Sub-Committee, and Privy Councillor Stuebben as Chairman of the Fire-proofing Sub-Committee, whilst Dr. Weinitz was in charge of the historical and art exhibits.

The German Court is divided into three sections. The commercial exhibits, the principal section, i.e., the Main Hall; the historical, art, and literary exhibits are contained in one of the bays of the Hall, and the exhibit of the Royal Berlin Police Fire Brigade is contained in another bay of the Hall.

By this combination history, literature, art, municipal management, and commerce are all under one roof, and form an unique whole for a study of the subject as relating to one country.

## THE GERMAN LOAN EXHIBITS.

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So little is known in this country on the subject of the Continental Fire Services, that the Executive of the B.F.P.C. determined to form in the German Court a collection of objects showing the historical development of the German service. A carefully selected group of art and literary exhibits have also been included in the same hall.

The arrangement of the three groups, History, Literature and Art, has been kindly undertaken by Dr. Franz Weinitz, of Berlin, who was responsible for the splendid loan collection at the Exhibition in the German capital in 1901, and to whom the Committee are greatly indebted for his assistance.

Artistic and literary productions connected with Fire Prevention and Fire Fighting are more numerous than is generally supposed, some of them dating from a very early period.

Two years ago, at the Berlin Fire Exhibition, these productions were collected for the first time in any large number. The present collection is especially interesting in its historical aspect, a large number of the exhibits belonging to past ages.

Naturally the number of oil-paintings is somewhat restricted, yet among them are to be found works of most distinguished painters. For example, there is Professor Kallmorgen's "Village Fire"; Professor Dittmann's "Burning of Altona"; Professor Julius Jacob's "Six Studies for the Diorama at the Berlin Fire Exhibition, 1901"; and the clever picture by Knut Ekwall, which has been so much admired, "The Berlin Fire Brigade." On the other hand, the eighteenth century is represented by the oil-painting, "The Burning of the Elector's Palace at Munich." Two of the younger modern school, Messrs. Wolff Maage and Otto Engel, have likewise contributed to this section.

The German National Museum in Nuremberg has lent twenty drawings, for the most part depicting Fire Catastrophes of the past, which caused considerable excitement, and were at once portrayed, often in a rough and ready style.

Director Rieken's collection shows exhibits from all lands and all periods, and it must be considered, from the representative character of its contents, one of the most important collections in the world.

Perhaps, however, the large sketch by Professor Jaffe, "The Funeral Pyre of Hephestion," will receive the most general approbation.

It is regrettable that it has only been possible to secure a small reproduction of the Fire Brigade Monument, erected by the City of Berlin, at the time of the Jubilee of its Fire Brigade; nevertheless, the excellent photographs of this monument give an excellent idea of its details. The life-like group by the

sculptor Riesch of a fireman rescuing a woman and child cannot fail to win praise. A Medallion presented two years ago to the Chief of Police of Berlin, von Windheim, and the Berlin Fire Exhibition medals are well worthy of attention.

Ancient literature is mainly confined to fire regulations, which from time to time the thoughtful authorities issued to guard citizens from the dangers of fire and lights. It would have been easy to exhibit ten times the number of these warnings, were they not of a wondrous similarity. The set of regulations issued by the City of Munich for patrols and watchtowers are well worth special attention.

A noticeable series of publications are the writings of inventors, technical and practical, which aroused much admiration when written, but are now merely regarded as curiosities. The one exception is Hans Hantsch, compass-maker, who lived and worked in Nuremberg, about the middle of the seventeenth century, and is now universally acknowledged as the inventor of the fire-engine with "Windkessel." The big book by the learned mathematician Jacob Leopold, "Theatrum Machinarum Generale," A.D. 1734, is also valuable. The oldest police regulation here displayed is that for the force of Aix-la-Chapelle, in the middle of the eighteenth century.

Modern literature dealing with Fire Extinction and the saving of life from fire has assumed such proportions that a general description is here impossible. P. H. L. Jung, publisher, of Munich, has undertaken the laborious task of making a complete collection of this literature.

The photographic material available from different quarters, especially Hamburg's large framed collection of views of various fires, is undoubtedly very valuable.

There is a goodly selection of relics, showing the extraordinary distortions and transformations caused by heat. Most of these objects have been got together from great fires in the neighbourhood of Berlin. Not the least notable "relic" is the old Berlin fire-engine, of Amsterdam manufacture, which dates from the middle of the eighteenth century.

This brief resumé, from which many interesting objects to be found in the following pages are omitted, is merely intended as an introduction to the loan collection, which owes its existence to the generous unselfishness of the owners.

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## BERLIN ROYAL POLICE FIRE BRIGADE.

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The leading Fire Brigade of the German Empire is to be found in the capital. This department, however, is not, as one could expect, a municipal one, but a division of the Royal Police, and hence a Government institution. In this respect it forms the one



exception among the city Fire Brigades of Germany. Yet in reality it is municipal, in that it receives financial support from the municipality, and in every way corresponds to other Brigades organised for the protection of a large centre.

The Brigade was organised in 1851, and celebrated its Jubilee two years ago by holding the Fire Exhibition at Berlin, and organising the Great International Congress of 1901. As far as organisation, management, discipline, and general efficiency are concerned, the institution may be regarded as a model, and it is being brought up to date by the acquisition of the most modern fire appliances and the reconstruction and extension of its stations.

The Brigade annually attends from 2,000 to 3,000 fires, the exact number of turn-outs for the year 1900 having been 2,683. The establishment cost in the same year 1,720,000 marks, of which 1,590,000 was ordinary annual expenditure and the remainder capital outlay. In the same year the service comprised 5 District Commands, each with 3 stations, 1 chief officer, 6 senior superintendents, 14 superintendents, 83 foremen, and 736 firemen made up the corps, with an additional staff of clerks, telegraphists, and artisans. The Department possessed 12 steamers, 18 manuals, 19 hose reels, 9 eighty-foot long ladders, 138 horses, and was well equipped with chemical engines, tenders, etc. The fire telegraphing scheme is extensive and efficient, while it has an exceptionally fine hydrant system with 5,000 hydrants 3 feet above the pavement. Among the many duties of the Brigade is the posting of fire watches in theatres.

#### LENT BY THE BERLIN ROYAL POLICE FIRE BRIGADE.

##### *Fire Telegraph.*

- 920. Specimens of Public Alarm Call Points.
- 921. Signs on Street Lamp-posts indicating Position of Public Fire Alarms.
- 922. Signs at Fire Brigade Stations.

##### *Organisation.*

- 923. Plans showing Distribution of Fire Brigade.

##### *Uniforms.*

- 924. Uniforms used on Parade.
- 925. Uniforms used at Fires.
- 926. Arrangement for Stowing Kit when on Duty at Station.

##### *Equipment.*

- 927 to 933 Seven Models of the Principal Wheeled Fire Appliances used by the Fire Brigade.

##### *Life-Saving Equipment.*

- 934. Specimens of Ordinary Ladders, Folding Ladders, Hook Ladders, Life-Saving Apparatus, and Jumping Sheet.

*Smoke Helmets.*

- 935. Specimens of Smoke Helmets used by the Brigade.
- 936. Fire Suit and Oxygen Apparatus.

*Main Equipment.*

- 937. Small Hand - Mops, Becket - Pumps, and Water Tap Connections.

*Hose and Connections.*

- 938. Section Pipes, Hose Branches, and Connecting Pieces.

*Salvage Appliances.*

- 939. Sets of various Tools and Appliances used for Salvage Work and for Repairs to Floors, Cutting off Gas and attending to High Tension Electrical Risks.

*Lighting Appliances.*

- 940. Ordinary Torches, Magnesium Torches, Ordinary Lamps, Davey Safety Lamps, Electrical Lamps, Officers' Electrical Lamp.

*Water Supply.*

- 941. Plan of Hydrants, Wells, and Water-courses in the City of Berlin.
- 942. Specimen Special Hydrants for Theatre use.

*Ambulance Section.*

- 943. First Aid Boxes carried on all Engines, Stretchers, etc.

*Equipment of Fire Station.*

- 944. Model of a Suburban Fire Station (Fire Station No. 11).
- 945. Specimen of Collapsible Bed at Station.
- 946. Model of Oxygen Supply Room.

*School of Instruction.*

- 947. Collection of Brigade Rules.
- 948. Instructions for Firemen in the Use of Hose.
- 949. Collection of Couplings in use in Germany.
- 950. Collection of Soot Samples.
- 951. Model for Instructing Firemen in the Dangers of Overhead Tram-line Wiring.
- 952. Model of Theatre Float.

*Historical Exhibit.*

- 953. Portrait of Privy Councillor Scabell, Founder of the Berlin Royal Police Fire Brigade.
- 954. Portrait of Herr Hinckeldeyn, the Police President entrusted with the Formation of the Brigade.

- 955. Portrait of Fire Chief Witte.
  - 956. Portrait of Fire Chief Stube.
  - 957. Collection showing Equipment of Watchmen of Berlin Force to the Formation of the Berlin Fire Brigade.
  - 958. Picture of Early Fire Station.
  - 959. Picture of Fire Drill at the beginning of the last Century.
  - 960. Specimens of Old Uniforms and Equipment.
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*Lent by the Government Province of Schleswig-Holstein.*

*Note.*—In Prussia the organisation of the Fire Service of different provinces is under the supervision of the provincial governments, and in the same way as there is an exhibit of the Berlin Royal Police Fire Brigade, showing the organisation of the Fire Department in a large city, so an exhibit has been arranged for to demonstrate the organisation of the Fire Service in the provinces, the character of which is essentially rural.

- 961. Plan, showing the Fire Brigade Stations of the Province.
- 962. A Statistical Catalogue of the Equipment and the *Personnel* of the Fire Service of the Province, with Copies of the Rules and Regulations.
- 963. Report of the Fire Tests conducted at Altona, and Drawings of Appliances used, together with 3 Models showing the Protection of Buildings of a rural nature.

*Lent by the Provincial Fire Insurance Department of the Province of Schleswig-Holstein.*

- 964. Drawings and Prints relating to Protection from Lightning.
  - 965. Three so-called "Lampsche" Fire Finders, for the purpose of locating Fire at a distance, with the view of adjoining Fire Brigades being able to mark the exact locality and the distance.
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THE CONRAD RIECKEN COLLECTION OF PICTURES RELATING TO  
FIRE SCENES.

*Lent by the Owner.*

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OLD PRINTS.

- 965A. Fire at the Powder Mill in Nürnberg, 1764. Burning of the Town of Ysni (Allgäu), 1623. Fire of London, 1666. Fire of Metz, in Augsburg, 1634. Fire rue de la Montagne and St. Anne Chapel, Brussels. Ruins of the Garrison Church in Berlin, 1720. Ruins of Pretri Church and Surroundings in Berlin, 1730. "The Times" (W. Hogarth), 1762. Burning of the Rathhaus of Amsterdam, 1652.



Ruins of Schwartzenberg in Saxony after the Fire (Krüger), 1824. Burning of the Elector's Residence at Bonn, 1777. The Fire of Amsterdam, 1658. Conflagration in Petersburg, 1862. Burning of the Town of Windsheim, 1730. Ruins of Windsheim, 1730. Burning of the St. Egidien Church and Gymnasium, Nuremberg, 1696. Burning of the St. Paul Church, Rome, 1823. Burning of Johannis-Strasse in Jena on the day of the Battle, 1806. Burning of the St. Germain Fair, Paris, 1762. Fire of Prag, 1811. Fire of Bristol, 1831. Fire of Bristol, 1831. Fire of Wunsiedel, 1731. Burning of the Royal Imperial Calico Printing Factory of Mr. Granichstädten in Sechshaus, near Vienna, 1848. Michael's Church in Hamburg, 1750. Burning of the Opera in the Palais Royal, 1763. Burning of the Leitmertzer Brücke, 1778. The Dreadful Fire of Königsberg, 1811 (two plates). Burning of the London Exchange, 1838. Burning of the Brussels Theatre, 1855. Fire at the Mühlendamm in Berlin, 1838. Burning of a Suburb, Seydau, near Bautzen, 1806. Burning of an old Town. Burning of the Suburb of Görlitz, 1807. Burning of the Hotel de Pologne, Leipzig, 1846. The Farm House on Fire. Gran on the Danube: Before and after the Fire, 1594. Views of the Duke's Castle in Brunswick before and after the Fire, 1830. Practising the Engines before the Town Hall, Amsterdam.

#### HISTORICAL PICTURES.

966. Fire of Landshut, 1634. Emperor William I. as young Prince, at a Fire in Burgstrasse, Berlin, 1826. Fire of Moscow, 1812. Fire of Moscow, 1812. Fire of Bautzen, 1620. Burning of the Suburbs of Dresden, 1758. Burning of St. Cloud's Castle, 1870. Burning of St. Cloud, 1870. Burning of the Town of Mayence, 1793. Burning of the Markgraf's Castle, Hohenlandsperg, 1554. Burning of the famous Rhine Bridge at Schaffhausen, and Village of Feuerthalen, 1799. Fire of Copenhagen (Rugendas), 1807. Fire of Dantzic (Rugendas), 1807. Battle of Hanau (Rugendas), 1813. Munster before and after the Fire (C. Merian), 1657. Fires in Vienna during the Revolution, 1848. Fire in Vienna during the Revolution, 1848. Fires in Paris, 1871. Fires at the time of the Siege of Strassburg, 1870.

#### VARIOUS.

967. Turkish Fire Brigade with Engine. Monument to Christian Hengst's, Durlach. The Church in Danger. Heidelberg Fire Brigade, 1851. Conflagration in Stuttgart (W. Wulff). Forest Fire. Earthquake and Fire of Lisbon, 1755. Two

Fire Knights from Berthold Auerbach's *Volkskalender* (Goethe and Duke of Weimar) (Ramberg), 1861. Fire of Chicago, October, 1871. Burning of the City of Cap Français (Haiti), 1793. Plan of the Town of Memel, showing the Fire, 1854. *Verordnung des Landgrafen v. Thüringen*, 1728. Burning of the Grand Ducal Theatre, Karlsruhe, 1847. C. F. von Hinkeldey, Director of Police of Berlin, and Founder of the Berlin Fire Brigade. Comic Cuts from the "Fliegenden Blättern." Burning of the St. Jacobi Church in Lubeck, 1901. *Ignis: Allegorical Composition*. Burning of a Vessel. Nuremberg Fire Engine, 1658. Advertising Signboards of the first Nuremberg Fire Engine, by Hans Hautsch, 1655. Fire in Schissamazuzio Street, Tokio. Fire in Japan. Burning of the Treumann Theatre, 1863.

#### PHOTOGRAPHS OF MODERN FIRES.

968. Burning of the Cross Church, Dresden, 1897. Ruins of Cross Church, Dresden, 1897. Burning of the Aktienhof, Berlin. Ruins of the Aktienhof after the Fire, 1897. Burning of Wagner's Warehouse, Hamburg, 2, Elbstrasse, 1901. Ruins of the Swedish Town of Sundswall, 1888 (two). Burning of the Steeple of the Benedictine Church in Quedlinburg, 1901. Burning of Hultmans Holme, Suburb of Gothenburg, 1900. Fire Disaster in Hull-Ottawa, Canada, 1900. Burning of Messrs. Hambrook & Traubmann's Warehouse, Hamburg, 1901. Burning of the Royal Theatre, Dresden, 1869. Ruins of the Chemnitz Casino, 1884.

#### REPRODUCTIONS OF PAINTINGS.

969. *Les Victimes du Devoir* (Detaile). The Fire of London (Stanhope), 1666. Burning of a Dutch Town (J. Vernet). Fire at a Convent (Lessing). Saved (Ch. Vigor). The Heros of the Love of your Fellow Creatures (A.S.). Fire of London (Lieve Verschur), 1666. Village on Fire (Bokelmann). Burning of an old Town (J. de Vet). Fire of Troye (J. de Witt). Burning of a Mill (L. Knaus). Village on Fire (C. Hübner). Burning of a Dutch City (Van d. Meer).

#### MODERN FIRES.

970. Burning of the Royal Theatre, Dresden, 1869. Burning of the Utokolm Restaurant on the Uetliberg, near Zürich, 1878. Burning of the Tramways Dépôt, Schöneberg, Berlin, 1884. Ruins of the Cathedral (Frankfurt-am-Mein), 1867. Burning of the Opera Comique, Paris, 1887 (two). Burning of the Fire Art Academy, Dusseldorf 1872. Fire of Chicago: Street Scene, 1871. Burning of

the Tower of St. Lawrence Church, 1865. Burning of the Town Hall, Aix-la-Chapelle, 1883. Burning of the Ring Theatre, Vienna, 1881 (two). Ruins of the Municipal Theatre, Cologne, 1869. Burning of the Schwerin Court Theatre, 1882. Burning of the Kaiserhof Hotel, Berlin, 1875. Burning of St. Ulrich's Church, Margdeburg, 1861. Burning of the Salzburg Cathedral, 1859. Burning of the Municipal Theatre, Vienna, 1884. Fire at Pera, 1870. Burning of the Court Theatre, Darmstadt, 1871. Burning of the Hohenrechberg Castle, 1865. Collection of Lithographs of Fire of Hamburg, 5th-9th May, 1842.

#### OIL PAINTINGS.

971. Burning of the Ducal Castle, Brunswick, 1865. Burning of a Dutch Castle (Van der Poel, 1621-64). Burning of the Tivoli Brewery, Berlin (F. Skarbina), 1870. Burning of the Borsig Mill, Berlin (F. Skarbina), 1898. Burning of the Hygiene Exhibition, Berlin (Douzette), 1882. Burning of the Maybachufer Timber Yard, Berlin (Douzette), 1886.

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*Lent by J. Alexander, Berlin.*

972. Oil Painting of the Berlin Royal Police Fire Brigade going to a Fire, by K. Ekwall.

*Lent by Chief Superintendent Bahrddt, Berlin Royal Police Fire Brigade.*

973. Photographs of the late Chief Officers Witte and Stude.  
 974. Photographs showing formation of the Berlin Royal Police Fire Brigade in 1881.  
 975. Photograph of the special Fire Brigade Station erected at Holtzman for the opening of the North Sea Baltic Canal.  
 976. Diploma accorded to Chief Superintendent Bahrddt at the International Fire Exhibition at Berlin.

*Lent by Superintendent Bliesener.*

977. Four Photographs of the Great Fire at the Borsigmills, Berlin.  
 978. Relics of the above Fire.  
 979. Fused Clock from the Fire at the Hamburg Railway Station.  
 980. Relics of Toys from the Prison Fire at Plötzensee.  
 981. Relics of a Stone hurled to a great distance at the Explosion of the Giresheim Powder Factory.  
 982. The Relic of a Fused Gutter.  
 983. Relic of a Rifle from a Fire at No. 34, Thurmstr., Berlin.

*Lent by the Historical Society at Berlin.*

984. The Fire at the Petri Church, Berlin, 1809.  
 985. The Fire at the Royal Opera House, Berlin, 1843.



986. The Fire Regulations of the town of Cottbus, 1707.  
 987. Instructions to the Squirt Attendants and Hosemen of Berlin, 1816.

*Lent by Otto H. Engel, Berlin.*

988. Painting of a Fire near the Potsdam Bridge, Berlin.

*Lent by the Municipal Library of the Corporation of Berlin.*

989. The Fire Regulations of the City of Breslau in the year 1630.  
 990. Collection of Fire Regulations of the Mark District.  
 991 and 992. Two Engravings, Fire at the Mühlendamm, Berlin, 1795 and 1838.  
 993. Engraving, Inventions of Fire Appliances in the year 1797.

*Lent by Messrs. Godett.*

994. Case containing Examples of the various Life-Saving and Fire Brigade Medals of Germany, collected by Mr. Godett.

*Lent by the Imperial Alexander Homes, Berlin.*

995. Lithograph, Burning of English Goods at Hamburg.  
 996. Engraving and Lithograph, Fire, Winter Palace of St. Petersburg, 1837.  
 997. Silver Medal commemorating the above Fire.  
 998. Engraving of the Fire at Moscow, 1812.

*Lent by Mr. B. Goldberg.*

999. Picture, The Fire at the Royal Opera House, Berlin, 1843.

*Lent by Major Noel, Charlottenburg.*

1000. Pictures, Berlin Royal Police Fire Brigade before and after the year 1851.  
 1001. A Collection of 14 Photographs.

*Lent by the Royal Prussian Academy of Arts.*

1002. Engraving, "Here you are!"  
 1003. Engraving, "Fire."

*Lent by R. Schuster, of Berlin.*

1004. Engraving, by J. Becker, "The Storm."

*Lent by W. Stötzer, Berlin.*

1005. An account of the Feast given to Celebrate the Testing of a New Fire Engine at Berlin, 1783.

*Lent by Professor Wallé, of Berlin.*

1006. Copy of the Prussian Fire Regulations in 1727.  
 1007. Copy of the new Control Regulations, Cologne, 1619.  
 1008. Old Police Regulations, 1801, for the town of Winnriedel,

*Lent by the Royal Police, Berlin (Fire Brigade Department).*

- 1009. Lithograph, showing a Drill by the Fire Brigade of Karlsruhe.
- 1010. Three Posters of the International Fire Exhibition, Berlin, 1901.
- 1011. Woodcut, Procession of the Volunteer Salvage Corps of Japan.

*Lent by the Officers' Mess of the Royal Police Fire Brigade of Berlin.*

- 1112\* Drawing by Stoewer, "The Cameroon Fire Brigade."
- 1113. Woodcut from "Kladderadatsch," a Caricature of the Berlin Royal Police Fire Brigade at Drill, 1852.
- 1114. Photograph, Commemorative of the Visit of the Prussian Gymnastic Academy to the Fire Brigade, Berlin, 1897.
- 1115. Photograph of the Visit of a Deputation of the British Volunteer Fire Brigade Officers to Berlin, 1901.

*Lent by Chief Officer Giersberg, of the Royal Police Fire Brigade, Berlin.*

- 1116. A Wooden Statuette of St. Florian.
- 1117. Photograph of the Russian Visitors to the International Fire Exhibition, Berlin, 1901.
- 1118. Souvenir Presented to Chief Officer Giersberg, of Berlin, on his retirement from the post of Superintendent at Bremen.
- 1119. Photographs of the Officers' Mess, Berlin Royal Police Fire Brigade.
- 1120. Photograph, Officers of the above Brigade.
- 1121. Photograph, Chief Officers of the Leading North German Fire Brigades' Assembly at Bremen, 1895.
- 1122. Photographs of Fire Brigade Officers in Milan, 1902.
- 1123. Model of a Russian Hand Fire Engine.
- 1124. The Tokio Volunteer Fire Brigade of Fifty Years ago.
- 1125. A set of Six Medals of the Berlin International Fire Exhibition, 1901.
- 1126. Ten "Reports on the Administration on the Call System and Fire Brigade of Berlin," 1892-1901.

*Lent by Dr. Weinitz, Berlin.*

- 1127. Photographs of the Art and Literary Sections, Berlin International Fire Exhibition, 1901.
- 1128. Photographs of the Art and Literary Sections, Berlin International Fire Exhibition, 1901.
- 1129. Engraving, Fire at the Castle of Altenburg.  
"News of the Fire of the Petri Church, Berlin, 1730."
- 1130. Official Report of the Burning of the Petri Church, Berlin, 1809.
- 1131. F. Glaser's Fire Tests at Marburg of 1786.

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\* In numbering, 100 Exhibit numbers have been temporarily passed over.

- 1132. Engraving of a New Fire Engine at Leipsic, 1805.
- 1133. The Prussian Fire Brigade Regulations in the year 1727.
- 1134. Official Handbook for the Inhabitants of Berlin, 1836.
- 1135. Book, "Fire Prevention and Fire Extinction at the Commencement of the Twentieth Century."
- 1136. Book, "The First Fifty Years of the Berlin Fire Brigade."
- 1137. Book, "International Fire Congress of Berlin, 1901."
- 1138. The Official Journal, Catalogue, and Plan of the International Fire Exhibition of Berlin in 1901.
- 1139. Portrait of Mr. N. Kohen, who was wrongly accused of being the Incendiary of a Fire at Frankfurt, 1711.
- 1140. Book, by Hekscher, on the Fire at Hamburg of the 5th to 8th May, 1842.
- 1141. The Fire Brigade of the City of Vienna.
- 1142. A Book by Fiedler, on the History of the German Fire Brigade and Salvage Work, 1873.
- 1143. Book by Scabell on the Fire Service of Berlin, 1853.
- 1144. Book by Elsner, being a Text-book for Professional Fire Brigades.
- 1145. Book by Molitor, entitled "Feuerschutz u. Trutz."
- 1146. Silver Medal presented to Dr. Weinitz by the Empress of Germany on the occasion of the International Fire Exhibition, Berlin, 1901.
- 1147. Various Printed Sheets.
- 1148. Photograph, Arnim's Crystal Glass in Prenzlau.

*Lent by Mr. Hugo Wolff Maage.*

- 1149. Painting, "Scenes from the Life of the Berlin Royal Police Fire Brigade.

*Lent by W. Dotwe.*

- 1150. Pastel Drawing by R. Fuchs, Fire at the Borsig Mills, 1898.

*Lent by Julius Jacob, Berlin.*

- 1151. Fire of St. Lorenz Church of Nurnberg, 1865.
- 1152. Burning of the City of Hamburg, 5th to 8th May, 1842.
- 1153. Forest Fire.
- 1154. Borsig Mills Fire, January 9th, 1898.
- 1155. Destruction of Pompeii, 79.
- 1156. The Burning of Naphtha Stores at Baku.

NOTE.—The above are water colours, by Professor J. Jacob, prepared as a basis for the dioramas at the Berlin Fire Exhibition of 1901.

*Lent by the Volunteer Fire Brigade of Wilmersdorf.*

- 1157. Engraving, "Saving a Child from Fire."

*Lent by L. Hoffman, City Architect of the City of Berlin.*

- 1158. Three Photographs, Fire Brigade Monument at Berlin.

*Lent by O. Riesch.*

- 1159. Model, "The Fireman."



*Lent by Professor Kallmorgen.*

1160. "The Village Fire."

*Lent by the Royal Prussian Ministry for Education.*

1161. Painting by Ludwig Dettmann, "The Destruction of the City of Altona, 1730."

*Lent by the Corporation of the City of Aix-la-Chapelle.*

1162. Regulations for the Citizens of Aix-la-Chapelle as to their Behaviour on the occasion of Fire (the Original Paper dating from the 15th Century).

1163. Extracts from various Rules and Regulations.

*Lent by the Corporation of the City of Augsburg.*

1164. Fire Regulations of the City of Augsburg, 1593, 1663, 1675, 1731, and 1734.

1165. Publications of the Years 1716-1722 regarding Fire Appliances Designed by Zacharias Greyl.

*Lent by the Corporation Library of the Hanse City of Bremen.*

1166. Fire Regulations of the City of Bremen, 1681, 1716, and 1751.

1167. Extract from the Regulations of the Duchy of Brunswick of the years 1585 and 1612.

1168. Book by Heinemann on the Protection of Small Towns from Fire, published at Lemgo in 1777.

1169. Book on the Construction of Fire Engines, by Karsten, published at Greifswald, 1773.

1170. Book by Silberschlag on Trials with Fire Engines, 1800.

*Lent by Max Langen, of Cologne.*

1171. Painting by Professor Kampf, "Stuck."

*Lent by Mrs. J. von Astudin-Meineke.*

1172. Painting, "Hurry 'Up."

*Lent by the President of the Province of Frankfort-a-Oder, Herr von Windheim (late Chief of the Police at Berlin).*

1173. A Medallion presented to the Berlin Chief of Police by the Officers of the Royal Berlin Police Fire Brigade.

*Lent by the Fire Brigade of the Hanse City of Hamburg (Chief Officer Westphalen).*

1174. Photograph of the Great Fire at the Sandtor Docks.

1175. Photographs, Block II. on the Kehrwieder.

1176. Photographs, Fire at the Petroleum Refinery, Harburg.

1177. Photograph of the Oil Refinery of Hamburg.

1178. Photographs of a Fire in 1894.

1179. Photographs of a Fire at a Mill.

1180. Photographs of the Factory of Nagel & Co.

1181. Photographs of the Warehouses at Neueburg.

1182. Photographs of the Fire on the Steamer *Trekla Bohlen*.

1183. Photographs of the Great Fire at Harburg.

- 1184. Photographs of a large Timber Yard, Warehouse, etc., of the 28th October, 1900.
- 1185. Photographs of a Fire at the Oil Mills in the Bankstrasse, Hamburg.
- 1186. Photographs of a Fire at Schopenstehl, 15th January, 1903.
- 1187. A Picture by Van der Heyde.
- 1188. Photographs of new Chemical Engines of the Hamburg Fire Brigade.

*Lent by Chief Officer Reichel, Hanover.*

- 1189. Book, "The Automobile Fire Train of the City Fire Brigade, Hanover."

*Lent by the Prussian Society of Antiquities, Königsberg.*

- 1190. Two Water Colours, illustrating the Great Fire of Königsberg, 1811.
- 1191. Volume dated 1801, dealing with the subject of Fire.
- 1192. Circular dated 14th June, 1811, dealing with the Great Fire of Königsberg.

*Lent by Dr. Gaedertz.*

- 1193. Four Engravings, Fire at the Convent of Lübeck, 1843.

*Lent by Ph. L. Jung.*

- 1194. Portraits of Notable Continental Fire Brigade Officers.
- 1195. Views of Fires and Fire Drills.
- 1196. A Collection of the Fire Brigade Literature of the Continent.
- 1197. Statuette of a Fireman.
- 1198. Two Emblematical Paper-weights.

*Lent by the Record Office of the Corporation of Munich.*

- 1199. Vellum Copy of the Watchman's Regulations, 1562.
- 1200. MS. Regulations of the Church Watchman's Rules, 1563.
- 1201. Vellum-covered Documents of the 16th Century containing the Watching Rules of the City of Munich, with MSS. Addenda dated 26th July, 1567.
- 1202. The Church Watchman's Rules of 1648 in MSS.
- 1203. The Church Watchman's Rules at the St. Peter's Tower, of 1694 (2 MSS).
- 1204. The new Fire Brigade Regulations of 1794.

*Lent by the Historical Museum of the City of Munich.*

- 1205. Painting, Burning of the Royal Palace of Munich, 1750.
- 1206. Engraving, Fire at the Court Theatre of Munich, 1823.
- 1207. Engraving, Ruins of the Court Theatre Fire of 1823.
- 1208. Two Alarm Pistols and Fire Watchman's Equipment.
- 1209. Fire Helmet of olden days.
- 1210. Speaking Trumpet used by the Watchman on the Tower of St. Peter's Church, Munich, with a view of giving Alarm of Fire.
- 1211. Model of a Fire Escape.
- 1212. Relics of the Uniform of the Firemen injured at the Great Fire of Munich, 10th February, 1870.

- 1213. Chronicle of the Court Theatre Fire, 1822.
- 1214. Circular Souvenir of the Theatre Fire of Munich of 1828.
- 1215. History of the Royal Theatre of Munich.

*Lent by the Germanic National Museum of Nuremberg.*

- 1216. Fire Regulations, Rules, etc., of the Duke of Brandenburg, 1760. City of Braunschweig, 1647. City of Nuremberg, City of Schwarzburg, 1701. Nuremberg, 1716. Bamberg, 1724. Breslau, 1751. Zwickau, 1678.
- 1217. Book published at Königsberg, 1801.

*Lent by the Engraving Department of the Germanic National Museum of Nuremberg.*

- 1218. A Collection of Notable German Engravings dealing with the Question of Fire. Passau, 1662 and 1680. Naumburg, 17th Century. Oels, 17th Century. Reutlingen, 1726. Windsheim, 1730. Wunsiedel before and after the Great Fire of 1731. St. Michael's Church after the Great Fire of 1751, at Hamburg. Explosion of the Powder Mill at Nuremberg, 1764 and 1766. The Castle of Wilhelmsburg before and after the Fire of 1774. Gera, 1780. Stadtamhof, 1809. Eisenach, 1810. Salzburg, 1818. Document, 1824. Mill at Nuremberg, about 1835. Castle Fire, 1861. Church of St. Lawrence, at Nuremberg, 1865.

*Lent by the Municipal Library of Nuremberg.*

- 1219. Engraving, Fire Squirt, dated 1st May, 1565.
- 1220. Engraving, Street with a House on Fire, 1658.
- 1221. Engraving, Aegidien Church in Nuremberg, destroyed by Fire, 1696.
- 1222. Engraving, Fire Engine of about the 17th Century.
- 1223. A Booklet dealing with the subject of Fire, dated 1780.
- 1224. Engraving, "Vora im Feuer," 1770.
- 1225. Fire Mandate of Nuremberg, 1540 and 1671.
- 1226. The Revised Fire Rules of Nuremberg, dated 1596.
- 1227. The Fire Rules of Nuremberg, 1698 and 1702.

*Lent by the Historical Society of the Province of Posen.*

- 1228. Picture, dated 1724.

*Lent by the Director of the Kaiser Wilhelm Library of Posen.*

- 1229. Picture, dated 1708.
- 1230. Möller's Fire Sermon, 1709.
- 1231. Wanke on the Unfortunate Fires of Liegnitz, 1711.
- 1232. Höffichen on the Terrors of the Fire at Lobendaw, 1641.
- 1233. Rothe on the Monument of a Fire in 1684.

*Lent by the Royal Library of Württemberg.*

- 1234. Engraving, the Fire at Hall of 1680.
- 1235. Engraving, City of Hall after the Fire of 1728.
- 1236. Engraving, Burning of the Office of Stuttgart, 1683.



1237. Two Engravings, the Fire of 1726 at the City of Reutlingen.  
 1238. Engraving, Fire at the City of Hall, dated 1728.

*Lent by Max Oemler, Berlin.*

1239. Oil Painting, A Mill on Fire.

*Lent by Max Maij, Berlin.*

1240. Oil Painting, by G. Schoebel, The Fire of the Kroegel.

*Lent by Dr. O. von Ritgen, Berlin.*

1241. "The Protection of Cities against Fire." (5 volumes.)  
 1242. "The Protection of Buildings against Fire." (1 volume.)

*Lent by the Central National Fire Brigades' Union of Bohemia, Austria.*

1243. Statistical Tables, Maps, Technical Papers, Books, etc., relating to the above Brigades and their work.

*Lent by E. Marquardt, Berlin.*

1244. The Fire Regulations of Duke Christian of Saxony, Merseburg, 1662.  
 1245. The Regulations of Duke Moritz Wilhelm of Saxony, Merseburg, in 1730.  
 1246. The Fire Regulations of the Town of Nauen in 1833.

*Lent by the Mark Provinz Museum, Berlin.*

1247. Engraving, The Maerstrasse, Berlin (The Watch-Station is now the Fire Station).  
 1248. Engraving, The Fire of the Berlin Theatre, 1817.  
 1249. Lithographs, The Fire at the Berlin Opera House, 1843.  
 1250. Seven Sketches by L. Burger, of the Berlin Fire Brigade.  
 1251. Two Badges for Water Superintendents.  
 1252. A Medal, City of Hamburg, struck in Commemoration of the Great Hamburg Fire (1842).

*Lent by Conrad Gautsch, Munich.*

1253. Collection referring to Chemical Fire Extinguishing.  
 33 Glasses, with Chemicals.  
 Extinguishing Barrels; Swedish Extinguishing Cartridges and Bombs; Extinguishing Boxes; Cross-bows.  
 "Chemical Fire Extinguishing," by Conrad Gautsch (1 vol.).

*Lent by the "Berliner Schornsteinfeger Innung" (Chimney Sweepers' Guild of Berlin).*

1254. Model of Five-Storey House. Fire-Proof Construction. Non-inflammable Roof. Isolated Chimney Walls. Two Climbing Chimneys.  
 1255. Chimneys showing Cleaning Apparatus. Chimney with Sweepers in it to demonstrate how to Sweep Chimneys.  
 1256. Various Brushes and other Materials used by Chimney Sweepers.  
 1257. Instructive Materials and Collection of different Soots produced by various Coals.

# LIST OF EXHIBITS AND EXHIBITORS.

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1. **Geh. Oberbaurat Eggert, Berlin, W.**  
Self-Supporting Ceiling, system "Eggert" (patented in Great Britain, France, etc.), 30 ft. span,  $9\frac{3}{4}$  in. thick, flanked by two Spandrel Staircases, system "Eggert," 5 ft. 3 in. wide. Photos of "Eggert" constructions.
2. **A. G. Süddeutsche Wasserwerke, Frankfurt a/M.**  
Under and Over-Ground Hydrants, systems Pichler & Zottmann. Valves and Appliances.
3. **Jos. Flach, 16, Water Lane, London, E.C.**  
Spirit Appliances, Lamps, Cooking Apparata, etc., of German Manufacture.
4. **Schornsteinfeger Innung in Berlin, Berlin.**  
(Chimney Sweepers' Guild.)  
Models, etc., for Fire Instruction Purposes.
5. **Franz Scherrer, Bonn and Cologne.**  
Scherrer's Patent Fire Escape Windows; English Patent, 24,498.
6. **Nürnbergger Feuerlöschgeräte & Maschinen-Fab.-vormalis, Just. Christ. Braun, Nürnberg.**  
One Mechanical Revolving Motor Fire Escape; one Motor Carriage, coupled with Two-wheeled Patent Balanced Escape. Other Fire Appliances.
7. **C. D. Magirus, Ulm a/D.**  
Models of the celebrated Magirus Escapes. Photos of Automobile Fire Engines. Smoke and other Helmets, Side Axes, Couplings, Nozzles, Standpipes, Gas and Manual Engines.
8. **W. Busch, Bautzen i/Sachsen, Hamburg and Bautzen.**  
Motor Fire Engine, capacity 2,000 litres per minute, speed 25 kilometres per hour; Electromobile Gas Fire Engine and Tender, capacity 500 litres, to carry 10 firemen, speed 18 kilometres per hour; Hand Fire Pump (Annihilator); Pneumatic Fire Escape "Rocket" (system Schapler).
9. **J. S. Fries & Sohn, Frankfurt a/M.**  
The Schapler-Fries Pneumatic Tower Escape, to be extended 83 feet in 40 seconds, built entirely of metal. Sole Agents for Great Britain, A. Strauss-Collin.

10. **Lowack Walter & Co., Berlin, N.**  
Chemical Self-Acting Fire Engine, English Patent 16962; novel, simple, and effective; suitable for Mines, Ships, Warehouses, Hotels, etc. Vacuum Apparatus, English Patent, 16962. With or without Hose Arrangement; suitable for the suction of liquid masses, dangerous gases from wells, mines, etc.
11. **G. A. Fischer, Gorlitz.**  
Manual Engines with Specially Constructed Valves and Axle-trees.
12. **Max Vester, Leipzig.**  
"Ideal" Apparatus, combining Call, Telephone, and Fire Alarm, for Hotels, Ships, Mansions, etc.
13. **Wagenbau Ges. Kühlstein, Charlottenburg.**  
A Completely Fitted Chemical Water-Tender for the Royal Police Superintendence, Fire Brigade Section, Berlin.
14. **Excelsior Feuerloschapparate Ges. m.b.H., Berlin, C.**  
Chemical Fire Extinguisher "Excelsior" (Minimax), claimed to be the best, handiest, and cheapest Extinguisher on the market.
15. **Fabrik Explosions-sicherer Gefässe, Salzkotten i/W.**  
Manufacturer of Non-Explodable Cannisters, Receptacles, Tanks and Casks.
16. **Eduard Rau, Munich.**  
Manufacturer of the Portable Self-Acting Fire Extinguisher, "Extincteur," Patent No. 27816.
17. **L. Eichler, Fehrbellin.**  
Manufacturer of Wax, Magnesium, and Resin Torches. Contractor to the Royal Police Superintendence of Berlin, Fire Brigade Section.
18. **Vereinigte Hanfschlauch u. Gummiwaren-Fabriken, zu Gotha A.G., Gotha, Germany.**  
Seamless Woven Canvas Hoses, Plain and Rubber-lined; Canvas Water Tanks, Fire Escapes, Fire Buckets, etc.
19. **Müller Marx & Co., Berlin, C.**  
Models and Photos of Fireproof Free-bearing Ceilings. Stable Equipment.
20. **T. G. Lieb, Biberach a/Riss, Württemberg.**  
Manufacturer of Firemen's Helmets of every description and Material. Geared or Pneumatic Fire Escapes; speciality, Pompier Ladders.
21. **Dr. Sarason, Berlin, W.**  
"Terrace System," patented in most countries. Fundamental novelty in building construction. Absolute safety from fire. Open terrace gardens at every floor.



22. **Feuersichere Imprägnirung Verfahren E. Brinkmann,  
G.m.b.H., Hamburg.**  
Fireproof Impregnated Wood.
23. **Georg Sittig, Berlin, N.**
24. **Terrast Baugesellschaft m.b.H., Berlin, W.**  
Ceilings, Walls, Floors. System "Terrast." Artificial  
Marble "Terramor."
25. **C. B. Koenig, Altona.**  
Smoke Helmets, Koenig patent. Agents, Tolch & Co., Boat  
Yard, Fulham.
26. **Berliner Asbest-Werke (Rheinhold), Berlin.**
27. **Adolf Possekkel, Berlin.**  
Windows used as Escapes in case of Fire.
28. **Deutsche-Oesterreichische Isolir & Korkwerke  
G.m.b.H., Dresden.**  
Fireproof Cork Materials. Appliances for Protection Against  
Smoke and Fire. Insulating Materials for Economy of Cold and  
Heat.
29. **Dr. Fr. Schliephacke, Berlin.**  
Blinds and Roller-blinds to be used as Escapes in case of need.
30. **J. B. Schroer, Dortmund.**  
Chimney Tops and Stones to Prevent Chimney Fires; all  
difficulties in chimney erecting removed.
31. **Prüss'sche Patentwände G.m.b.H., Berlin.**  
Partition Walls, system Prüss Models and Photos. Self-  
Supporting Wall, 26 ft. by 17 ft., with Door and Window, out-  
door, near the Victoria Restaurant.
32. **Paul Hartmann, Berlin.**  
Firemen's Medicine Chests.
33. **Laboratorium für chem. Feuerschutz und Löschmittel.  
Gautsch, München.**  
Chemical Extinguisher. Fireproof Impregnated Wood.
34. **M. Allfeld, Karlsruhe.**  
The "Fire Imperator" allows a single person to do at once  
the three things necessary on an outbreak of fire.
35. **Aug. Hönig G.m.b.H., Cologne-Nippes.**  
Mechanical Tower Escapes. Various Fire Appliances.

36. **Berliner Lapidonwerke G.m.b.H., Fridenau-Berlin.**  
Fireproof Jointless Floorings in Artificial Wood or Stone, as a Substitute for Linoleum, Paving-Tiles, Wood, and Terrazzo Floors.
37. **W. Biel, Itzehoe.**  
Reform Sash Window.
38. **Schwabe & Co., Berlin.**  
Electric Lighting in case of Emergency, system "Giersberg."  
Fireproof Lighting for Shops, etc.
39. **Oscar Schöppe, Leipzig.**  
Self-Acting Fire Alarms, system Schöppe; English patent, 13064.
40. **Siemens & Halske, Berlin.**  
Their Largest Fire Alarm Installations include those of Amsterdam, Berlin, Bremen, Dresden, Frankfurt, Munich, Rio de Janeiro, etc. Exhibits: Berlin Fire Alarms, Inductors, Accident Alarms, Alarm Bells, Testing Instruments, Telephones (Fixed and Portable), Morse Inkers, etc.
41. **Sauerstoff-Fabrik, Berlin.**  
Oxygen Apparata.
42. **Müller & Co., Offenbach a/Main.**  
Helmets and other Appliances for Firemen. Models and Photos of Escapes and Engines.
43. **Philipp Jung, Munich.**  
Central Office for Fire Brigade Literature. Publisher of the "Fire Brigade Gazette" (*Zeitung für Feuerlöschwesen*), and the Monthly "Fire Police" (*Feuerpolizei Monatschrift*).
44. **Oppen & Prinzke, Soandau.**  
Metal Foundry and Fittings Manufactory. Manufacturer of the "Giersberg" Couplings.

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## QUEEN'S COURT.

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**Ernst Zappert, C. E., 27, Chancery Lane, W.C.**  
Cliff Automatic Hose Reel.

# Queen's Palace.

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## INTRODUCTION TO THE EXHIBITS.

In the organisation of this Exhibition an effort has been made to arrange and group the exhibits under the two primary headings of Fire Prevention and Fire Extinguishing, and the Queen's Palace may be said to be primarily devoted to the first of these two subjects, inasmuch as it contains the exhibits relating to the prevention of fire as obtained by the aid of constructive methods and the better equipment of buildings. The Queen's Palace also contains all those exhibits relating to that intermediary stage between the actual outbreak of fire and the arrival of the extinguishing forces; in other words, the fire alarms and fire telegraphy exhibits. Only a few of the fire extinguishing appliances will be found in this building, and only a few of those relating to the subsidiary subject of the Ambulance Service or first aid to those hurt at a fire.

Turning, therefore, to the Fire Preventive exhibits we find in this Hall much of what has been recently advocated by the British Fire Prevention Committee, and much of what has been subjected to the tests of that Institution with a view of arriving at the definition as to what is really fire resisting, or in other words what will stop the spread of a fire within a certain period of time. There will be a large exhibit by a firm who, by the use of a metal lathing combined with plaster work, are making great efforts to stay the spread of fire. Another firm of eminence exhibits fire resisting floors of a type to be found in many parts of the metropolis, in fact, all over the country. Another firm exhibits partitions of a fire resisting character by which the spread of fire from one room to another, or from one office to another, is to be prevented. There are firms exhibiting all manner of materials intended to be fire-resisting, and combinations of materials or systems of construction having the same purpose in view. The window opening, through which fire all too readily spreads, is to be protected, and we find exhibits of different firms of fire-resisting plaster. The door opening—another cause of the spread of fire—is to be suitably represented, and again we find exhibits of doors offering greater or less resistance against fire.

There are even exhibits of wood which, by impregnation, obtains certain qualities of fire resistance or non-flammability, and another exhibit of natural wood where the material, by its hardness, offers a form of protection much desired in certain classes of factory and mill buildings.

It would lead too far to go into detail. It is not our purpose to name individual firms, but, speaking generally, the Queen's Palace may be said to contain everything that is used in Great



Britain with a view of preventing the spread of fire, and much that is more or less constituted on the lines so strongly advocated by the Committee under whose auspices the Exhibition was organised. The Palace also contains a certain number of such exhibits from abroad, *i.e.*, Belgium, France, and other Continental Countries.

Turning now to the electrical fire alarms and telegraphic exhibits, by the use of which the fireman is called to the scene of fire, we find exhibits representative of every form of telegraphy from the ordinary telegraphic apparatus, the ordinary fire alarm system, the telephone service, to the automatic alarm, which is intended to automatically warn the fire fighting forces into being. Particular attention is called to the efforts devised relating to this latter form of calling the fireman to the scene of danger, and its essentially British development.

The final word to say is that there are in this Hall also a number of fire appliances primarily of the chemical character, where water is brought to bear upon a fire by the aid of gases. We refer to the Extincter Chemical Engines, etc.

There are also a few exhibits really not intended for this Hall, *i.e.*, dealing with life saving appliances, and also a few dealing with the numerous forms of firemen's uniforms and equipment.

But, to summarise, this Hall might well be termed the Fire Prevention Court, for here it is that we find the methods by which the great conflagrations of the future are to be met by the careful construction and equipment of our buildings.

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## INDUSTRIAL EXHIBITS AND EXHIBITORS.

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51. **The Berthon Boat Co., Ltd.**  
**London Office: 50, Holborn Viaduct, E.C.**  
**Works: Romsey, Hampshire.**  
 Ambulance Shelter for Fire Brigade Work. Salvage Watchman's Shelter for use at large Fires; Model of Passenger Life-boat in case of Ship Fires. Portable Life-saving Boats.
53. **Bergmann Electrical Works, 11, Farringdon Avenue, London, E.C.**  
 Manufacturers of Enclosed Motors and Dynamos, Ventilating Fans, Plain and Insulated Steel Conduit for Electric Wiring, Motor Starting and Lever Switches in Fire-proof Covers, Accessories.
54. **The Pearson Fire Alarm, Ltd.,**  
**Jewin House, Red Cross Street, E.C.**  
 Central Office Automatic Fire Alarm Apparatus; also Working Model of the Company's System.

**55. J. E. Spagnoletti & Co., Goldhawk Rd., Shepherds Bush.**

Rex Chemical Fire Extinguishers and Engines. Alarm Bells. Alarm Bells. Vargen Baxder Smoke Helmet. Fire Alarm Indicators. Automatic Fire Alarums.

**56. Marmorite and Co., 30, Great St. Helens, E.C.**

"Marmorite" is a by-product of glass and certain metallic ingredients, into which, in a molten state, colouring material is introduced; it closely resembles marble in appearance, and is capable of receiving and permanently retaining any designs.

**56a. Fry & Co., Ltd., Peninsular House, Monument St., E.C.**

The "Royal" Fire Extinguisher (a Chemical Fire Extinguisher for Hand Use).

**57. F. Dashwood, Lindisfarne, Walton-on-Thames.**

"Shepwood Partition Bricks."—Fire and Sound Resisting Bricks, for Partitions in Hospitals, Theatres, Flats, etc., are two inches in thickness, and when plastered and finished on both sides are  $2\frac{3}{4}$  inches. Nails can be driven in for the fixing of grounds and joiners' work.

**57A. Firmin & Sons, Ltd, 108/9, St. Martin's Lane, W.C., and 47, Warwick Street, Regent Street, W.  
Works : London and Birmingham.**

Button Makers by Appointment to His Majesty King Edward VII. Contractors to the War Office, Admiralty, India and Colonial Offices, London County Council, and London Salvage Corps. Naval, Military, and Civil Gold and Silver Lace. Manufacturers and Embroiderers. Sword Cutlers and Accoutrement Makers. Metal and Cloth Helmets, Cocked Hats, Caps, etc.

**58. "The Public Health Engineer,"  
13, Clifford's Inn, Fleet Street, E.C.  
Publications.**

**59. Central Insurance Co., 12 & 13, Nicholas Lane, E.C.  
Office for Insurance. Insurance Plans and Photographs.**

**60. Ratner Safe Co., Ltd., 51, Moorgate Street, E.C.  
Works: Hancock Road, Bow, E.**

Manufacturers of Improved TWELVE-CORNER-BENT Solid Steel Fire, Fall, and Thief-Resisting Safes, Steel Strong Rooms, Strong Room Doors, Party Wall Doors, Safe Deposits.

**61. William Miller. Office : 212, St. Vincent St., Glasgow.  
Works : 134, West George Lane, Glasgow.  
Patent "Concussion" Chemical Fire Extinguishers in all**

sizes from 1 gallon to 6 gallons capacity, and Chemical Charges for same. Brigade Pattern Fire Pump, Patent Automatic Lid Fire Buckets, Canvas Fire Hose, Fittings, etc.

**62. The British Uralite Co., Ltd., 50, Cannon Street, E.C.**

Samples of all kinds of Uralite, Veneered, Painted and Plain, also models of Roofing, Partitions, Ceilings, Doors, etc. Patent wired Refrax Glass, and other Special Glass manufactured by the Union Plate Glass Company.

**63. P. Hensel & Co., 12, Long Lane, Aldersgate St., E.C.**

"The National Fire Alarm," adjustable to any degree of temperature; self-controlling, simple, and reliable construction. Portable Fire Alarms and Thermostatic Temperature Recorders. Thermostatic Temperature Controlling Instruments for Industrial Purposes. Electric Current Economising Indicators. Recuperating Apparatus for increasing the lasting efficiency of all kinds of Batteries. Apparatus for Regulation of Temperature by Ventilators, adjustable to any degree.

**64. Drew-Bear, Perks & Co., Ltd., 71a, Queen Victoria St., London, E.C.**

Models of Steel Construction of Stage at Royal Opera House, Covent Garden, and Auditorium, King's Theatre, Hammersmith; also of General Steel Work. Photographs of Work executed.

**65. Gourmet & Co., Mount Pleasant, London, W.C.**

Sootene, dry Chemical Compound. Kills Fire instantly. Imp Soot Destroyer. Prevents Chimney Fires. The Clean Sweep, Chemical Chimney Cleaner. Kole Spar, Consumes Smoke, Saves Fuel.

**71. Rud. A. Stoffert, 121, Bath Street, Glasgow.**

Patent "Fram" Fire-proof Floors and Partitions, manufactured by Rud. A. Stoffert, Glasgow and Edinburgh; also by the Sub-Licensees, The "Fram" Fire-proof Flooring Company, Manchester; Oliver C. Townsend, New Bilton, Rugby; G. Aston and Son, Eagle Wharf Road, N.

**72. May-Oatway Fire Appliances, Ltd., 53, New Broad Street, E.C.**

A Fire Station Watch Room, fitted up with the following Apparatus:—Morse Receiving Instruments, complete with Batteries, Relays, Gongs, and Switches on Indicating Shutter Board. This will be connected by wires to a transmitting station in the Queen's Court, where will be fitted detecting compensators or thermostats; also an indicator case with one or more numbers, an alarm gong and material necessary for the demonstration of the May-Oatway System.



**73. Van derVygh Bros., Bosboom Toussaintste 2 Amsterdam.**

Phœnix Fire-Resisting Plates. Most Fire-proof material for building purposes. Patented in this country and the United States. Gold Medal, World-Exhibition, Amsterdam, 1895. Prescribed by different authorities in Holland.

**74. A. Troetzer, Chlodna, 29, Warsaw.**

One Four-wheel Manual, with two 5 in. bronze cylinders, throwing 80 gallons of water to a height of 90 ft. at a speed of 60 strokes a minute; special feature, hermetically closed water-tank; weight, about one ton. One Four-wheel Manual, with two 5 in. bronze cylinders, throwing 80 gallons of water to a height of 90 ft., at a speed of 60 strokes a minute; weight, about 18 cwt. One Portable Hand-Pump, with two 4 in. brass cylinders, throwing 49 gallons at a speed of 60 strokes to a height of 75 ft; weight, about 4 cwt.

**75. Compagnie Parisienne Société Anonyme  
(Capital, 2,000,000 frs.) 52, Avenue Daumesnil, Paris.  
London Agent: F. Geiger, 55, Camden Park Road, N.W.**

The Practical Uses of Liquefied Carbonic Gas. Fire Extinguishers.

**76. Siemens Electrical Appliances Co., Ltd.,  
61, Watling Street, E.C.**

Fire Alarms and Accessories.

**77. The St. Pancras Iron Works Co., Ltd.,  
171, Pancras Road. N.W.**

Fire Escape Staircases. Safety Concrete Fire-proof Treads. Iron Doors for Party Walls.

**78. Millar's Karri and Jarrah Forests, Ltd.,  
72, Bishopsgate St. Within, E.C.**

A representation of a Warehouse Floor constructed of Karri and Jarrah Timbers of Western Australia, showing uprights and beams. The above-named timbers have been tested by fire by the Fire Prevention Committee. Paving Blocks that have been laid for a period in different parts of England. Railway Sleepers, etc., etc. A Room entirely constructed of Karri and Jarrah Woods.

**79. The General Electric Co. (1900) Ltd.,  
71, Queen Victoria St., E.C.**

G. E. C. Patent Telephonic Fire Brigade Alarm System. Posts, Instruments (portable and fixed), and Station Switchboards and Apparatus. Electrical Fire Alarm Apparatus for Public or Private use. Thermostats, Pushes, Contacts, etc. Electrical Gas Lighting Apparatus fixed on burners, or portable; no matches necessary. Killingworth Hedges, "Air to Earth" patent system of Lightning Conductors and Fittings for Prevention of Fires.

Electrical Accessories for Prevention of Fire, Cooking and Heating Appliances, Iron-Cased Switches and Plugs. "Union" Electric Conduit and Fittings. "Robertson" Lamps, etc., etc.

**80. The Synchronome Co., 32, Clerkenwell Road, E.C.**

A Self-Wound Electrical Controlling Pendulum, or "Timed-Switch," as supplied to the New National Physical Laboratory at Bushy House, operating a time-circuit of 30 Electrically Propelled Dials, one dozen of which are distributed over a wide area and placed in serviceable positions in the Exhibition buildings, being connected together by a single line of wire about one mile in length.

A Turret Clock operated in the same manner.

A Bell-Controller or "Programme Clock," arranged to operate any circuit of ordinary electric bells at pre-arranged times in perfect synchronism with the clocks in the same building.

Employees' Time-Recorders, Watchman's Tell-Tales, Recording Electrical Measuring Instruments, and other examples of Synchronous Electric Propulsion in place of ordinary independent key-wound clock works.

**81. Louis Gustave Mouchel, 38, Victoria St., S.W.**

Plans and Photographs of Buildings and Constructions of various descriptions, such as Warehouses, Factories, Dock and River work jetties in ferro-concrete. On the Hennibique's Patents, as Agent for the said Patents. On the Mouchel's Patents.

**82. The Simplex Steel Conduit Co., Ltd., 80, Digbeth, Birmingham, and Norfolk St., Strand, London, E.C., and 1, Peel Street, Manchester.**

The Simplex System of Fire-proof Steel Conduit for Electric Wire Protection, comprising Enamelled and Galvanised Tubes for Screwed or Socket Junctions, and all necessary Fittings.

**83. Pilkington Bros., Ltd., 10, Upper Thames St., E.C.**

Patent Wire Rolled Glass, Patent Prismatic Rolled, Polished Plate, Rough Cast Plate, Plain Rolled Plate, Silvered Polished Plate, Smoked Tinted Plate, Patent Corrugated for Iron Roofs, Chequered Rolled Plate, Pavement Lights, Tiles, Slates, Shades, Glass Cells for Storage Purposes.

**84. The Stevens Emergency Fire Extinguisher Co., Ltd., 97, Whitworth Street, Manchester, and 680, Salisbury House, London Wall, E.C.**

Emergency Hand Fire Extinguishers. Simple in operation, certain in results. No acids. No suffocating fumes. Women and children can use them. Emergency Portable Tanks, Emergency Multi-Monitor, Emergency Fire Escapes.

85. **J. G. Grimsley & Sons, Engineers, Halford St., Leicester.**  
 Grimsley's Patent Double Automatic Sprinklers, self-closing repeat action, operated by wet and dry pipe systems.  
 Motor Alarms.  
 Fireproof Doors.  
 The Sprinkler Test Room is outside the Exhibition, and *not* near the Great Wheel, as circularised by this firm.
86. **H. Lotery & Co., 4 to 8, St. Mary Street, E.**  
 Uniform, Clothing, and Accessories.
90. **Giulio Mattarelli, Natale Fonderia Lecco, Italy.**  
 Fire Extinguishers.
91. **Cav. Paola Porta, Via Marcona 15, Milan.**  
 An Electric Aerial Fire-Escape Ladder on 4-wheeled Carriage.
92. **The Patent Impervious Stone Co., Rutland Wharf, Hammersmith, W.**  
 Impervious Stone in its various uses.
93. **A. C. Brown, 7, Queen's Square, E.C.**  
 Automatic Fire Alarms. Fire Alarm Telegraphs and Accessories.
- 94-95. **The Chiswick Soap Co., Chiswick, London.**  
 "Buttercup" Metal Polish. Best Polish for all Bright Metals. Made in England. Sold everywhere. Used by the London Salvage Corps and leading Fire Brigades throughout the country.
96. **Sinclair & Co., 19, Eldon Street, Finsbury, E.C.**  
 No. 1.—Collection Hand Fire Grenades. No. 2.—Collection Hand Fire Extincteurs. No. 3.—Collection Extincteurs carried on the back. No. 4.—Collection Extincteurs Mounted on Wheels. No. 5.—Two Brigade Chemical Fire Engines, fully equipped. No. 6.—One Combined 20 Gallon Extincteur, with Automatic Hose Reels. No. 7.—One 20 Gallon Extincteur with Hose Reel and Mounted on Four Wheels. No. 8.—Corridor Fire Engine. No. 9.—Collection of Fire Appliances, Unions, Branch Pipes, Landing Valves, Hydrants, Stand-Pipes, Axes, etc. No. 10.—Collection, various sizes, Fire Hose Canvas, plain and rubber lined. No. 11.—Firemen's Lamps. No. 12.—Comet Lamps for Firemen's use. No. 13.—Firemen's Respirators. No. 14.—Brigade Hand Pumps. No. 15.—Collection of Fire Buckets.
97. **The Clayton Fire Extinguishing & Ventilating Co., Ltd., 22, Craven Street, Northumberland Avenue, W.C.**  
 Clayton Fire Extinguishing and Disinfecting Machines. Types A. and E. Exhibited.
98. **Jabez Thompson, "Terrawode" Brickwood Works, Northwich, Cheshire.**  
 Patent "Terrawode" Brickwood Fire and Sound-proof Partitions, for use in buildings for dividing bedrooms, offices, etc.



This material is of very light weight. "Terrawode" Arch Floors, also Floor and Ceiling Slabs.

99. **H. C. Slingsby, 142-4 6, Old Street, London, E.C.; 22, Rue de Chabrol, Paris; 253, Broadway, New York.**  
Slingsby's Patent Trucks. Fire Hose and Ladder Trucks.

"Colloron Trucks." Sack Trucks and Plain Axle Hand-Carts.

100. **The Harden-Star, Lewis & Sinclair Co., Peckham.**  
Contractors to H.M. War Office, Admiralty, Crown Agents,  
H.M. Office of Works, etc.

"Star" Chemical Fire Engine on Wheels. Capacity, 10 gallons.

"Star" Chemical Fire Extincteur, capacity 10 gallons, for carrying on the back by leather shoulder strap yoke, or between two persons by side handles. Also Extincteurs of smaller capacity from 1 to 8 gallons.

The famous "Harden-Star" Hand Fire Grenade, in blue, melon-shaped, hermetically sealed bottle. Retains its fire-extinguishing properties indefinitely. Will neither freeze nor burst, and harmless to life, health and property.

"Harden-Star" Hand Grenade Sprinklers. "Star" Shoot Instantaneous Fire Escape. "London Brigade" Hand Fire Pump. "Tozer" Hand Fire Pump. "Corridor" Fire Engine on wheels, for Corridors. "Tyndalls" Smoke Respirator and Eye Goggles. Fire Buckets. Standpipes. Hose Couplings. Axes, Hand Lamps, Hose, etc.

101. **Mr. R. B. Roxby, 18, Featherstone Bdgs., Holborn, W.C.**  
Koenens uniform resistance Fire-proof Floorings.

102. **Wilson & Stockall, Bury, Lancashire.**  
Ambulance Carriages.

103. **Howard R. Justice, M.I.M.E., 55 & 56, Chancery Lane, W.C.**

"Hayes Patent" Fire-proof Sheet Steel Lathing. A thorough "Fire-proofer," easily fixed; takes less plaster; dries quickly. Sound proof, vermin proof, heat and cold proof. Superior for Partitions, and lends itself readily to Architectural Embellishments. For "jacketting" land or marine boilers, steam pipes, hot air flues, baffle plates for multi-tubular boilers, etc., it is invaluable and largely used. The "Justice Patent" Quieting Chambers (for Gas, Oil, etc. Engines) freely permit the passage of unconsumed gas, but entirely arrest all flame, thus preventing any explosions and effectually suppress the noise of exhaust from gas engines. When affixed to marine boilers, the dangerous "roar" from Safety Valves is entirely avoided.

**Geo. Hayes. 71, Eighth Avenue, New York, U.S.A.**  
Fireproof Reversible Window, with Automatic Closing Sashes.

104. **National Telephone Co. Ltd., Victoria Embankment.**

*Fire Alarms.*—National Telephone Co.'s Fire Alarm System. National Telephone Co.'s "Liverpool" Fire Alarm System. Ericseon Pattern Fire Alarm System. Firemen's Alarm Apparatus. National Telephone Co.'s "Glasgow" Police Alarms. Fire Alarm System as used at Bolton. Leeds Fire Alarm Box. South Shields Police System. Miscellaneous Samples of Fire and Police Alarm Apparatus. *Telephone Apparatus.*—General Wall Sets,

Table Sets, and Sundries. Metaphone Wall Sets, Table Sets, and Sundries.

105. **Homan & Rodgers, Gracechurch Street, E.C.**

Fire-proof Floors, constructed of Steel Joists, Hollow Fire Clay Brick and Concrete. Fire-proof Floors constructed of Steel Joists and Steeled Concrete. Constructional Steel Stanchions and Girders, with Fire-proof Casing.

106. **Sinclair & Co., 19, Eldon Street, Finsbury, E.C.**

The "Victor" Brigade Chemical Fire Engine, fully equipped as first and second aid, with two 35 gallon cylinders. Automatic Hose Reel—space for 310 yards  $2\frac{1}{2}$  in. canvas hose. (See also Stand 96.)

106A. **Eastman & Son, Latimer Road, Notting Hill.**

Specimens of Cotton Fabrics made Fire Resisting.

107. **Frank Walker & Co., 27-28, King William St., E.C.**

The "Perfection" Chemical Fire Extinguisher. The simplest and most powerful of its kind. Cannot possibly get out of order.

108. **The New Expanded Metal Co., Ltd., York Mansion, York Street, Westminster, S.W.**

1.—Fire-proof Building, illustrating the Company's Systems of Fire-proof Construction. 2.—Expanded Metal Fire-proof Floors, Walls, Partitions, Ceilings. 3.—Adaptations of Expanded Metal to various purposes.

109. **Eavis Fireproof Materials Co. (late Hitchin's Fire-proof Plastering Co.), Manor Works, Stamford Terrace, Stoke Newington, N.**

Fibrous and other Plaster Slabs. Block Partitions. Asbestos and Slag Wool Specialities.

110. **The Dominion Belting & Mill Furnishing Co., 12, Colonial Avenue, Minories.**

Fire Hose and Fittings. Beltings, etc., etc.

110A. **The Thermaphor Co., Ltd.; London Office—76, Chancery Lane.**

An Invention for the Production of Heat without Fire or Flame.

111. **Compagnie Parisienne Societe Anonyme, Paris.**

Large Carbonic Gas Fire Extinguisher. (See also No. 75.)

112. **Ludwigsbergs Werkstads Aktiebolag, Stockholm.**

Four-wheeled, Two-cylinder Steam Fire Engine, "Ludwigsbergs," Granell's Patent; capacity through 30 metres of hose, 1,100 litres of water per minute; length of jet, with 28 mm. nozzle and through 30 metres of hose, averages 50 to 55 metres in quiet weather; steam is raised to 7 kilos on the square centimetre in 10 to 12 minutes. Two-wheeled Steam Fire Engine, "Ludwigsbergs," Granell's Patent; capacity through 20 metres of hose, 550 litres of water per minute; length of jet, with a 22 mm. nozzle, averages 35 to 40 metres in quiet weather; steam is raised to 7 kilos on the square centimetre in 10 to 12 minutes. Three-cylinder Double-Acting Pumping Engine, with two Dividing

stand-pipes from which 12 hoses can be used at once; capacity, 9,000 litres of water per minute; the stand-pipes are also fitted with revolving branch-pipes, named "Monitors"; the Pumping Engine is designed to be mounted in a boat and used as a Floating Steam Fire Engine.

113. **J H. Heathman & Co., 72, Rectory Road, Parson's Green, S.W.**

Chute Fire Escapes, Family Fire Escapes, Tobeshaw Fire Escapes, Folding Iron Ladder Fire Escape, Folding Rope Ladder Fire Escape, Telescopic Fire Ladders, Wheeled Fire Ladders, Hand Fire Pumps and Grenades, Fire Hydrants and Hose Fittings, Telescopic Fire Ladder Towers, Telescopic Trestles, Extension Ladders, and Stops.

114. **Visintini and Weingartner, Gartenstr, 12, Zurich, Switzerland.**

Lattice or Truss-Girders of Concrete, with Iron Inlaid. A construction of Floors and Ceilings invented by Mr. F. Visintini, Architect, in Zurich. Patented in England, No. 28382, 1902.

119. **B. Polack, 39, Devonshire Chambers, Bishopsgate Street, E.C.**

Flax and Hemp Hoses, Canvas Rubber-Lined Hoses, Canvas Jump Catch-Sheets, Canvas Fire Buckets, Canvas Fire Escape Outlets, for Fire Brigade use. The above are made in the most approved manner for Fire Extinction and Escape from Fire.

120. **Lawrence & Mayo, 67 & 69, Chancery Lane, W.C.**  
Scientific Instruments.

**James Pitkin & Co., 56, Red Lion Street, Clerkenwell, E.C.**

"Sir William Roberts-Austen" Recording Pyrometer, such as are used in the tests of the British Fire Prevention Committee.

121. **A. Bidders & Son, Rotterdam.**

Hemp and Flax Woven-Hose.

122. **Cav. Achille Molle, Chief of the Fire Brigade of Naples.**  
Works on Fire Prevention.

122a. **Lewis & Grundy, Pelham and Victoria Streets Nottingham.**

Photographs of Fire Escape Staircase erected by Lewis & Grundy, Constructional Engineers.

123. **W. Gooding, North Road Works, Holloway.**

Safety Treads for Footboards of Fire Engines, Horsed Escapes, Hose Carts, etc. These treads consist of a metallic keeper or frame, pierced with a number of square-shaped holes, through which blocks of rubber are placed which form the wearing surface and afford a perfectly firm footing.



124. **Pietro Berzia, 8, Via Tarins.**  
Fire Extincters.
125. **Ch. Arnaud-Soumain, 64, Rue Saint Sabin, Paris.**  
Hose, with Hydraulic Protector, system Ad. Petit (Patent).  
English Patent No. 4466, 1901.
126. **Th. Debaucheron, 42, Boulevard, St. Germain.**  
Portable Breathing Apparatus, "Le Spiro." Debaucheron patented system.
127. **Feuerwehr-Landes-Zentralverband für Böhmen, Prachatitz and Josefstadt, Bohemia.**  
1.—Fire Brigade Chart of Bohemia. 2.—Statistics of the Exhibiting Society. 3.—Document relating to the Benevolent Association of the Union. 4.—Prints issued by the Landesverband. 5.—Books published by the Landesverband.
128. **Fleury-Legrand, Madeleine les Lilles, France.**  
**Agent, E. Thiroux, 3, Tudor Street, Ludgate Circus.**  
Hand Extincteurs. "Automatic" Extincteurs for carrying on the back. Hand Pumps.
129. **Sanders, Rehders & Co., 108, Fenchurch Street, E.C.**  
Electrical Hand-Lamps, Ignition Batteries for Motor Fire Engines, Plates for same. Accumulator Cells of Various Descriptions. Draught Gauges.
130. **E. Brown, 104, Vyse Street, Birmingham.**  
This patent is to provide persons upon the spot, when a Fire is discovered, a ready means to assist those in danger to escape.
- 130A. **Victor Jetley, 8, North Audley Street, W.**  
Model of Propelling Motor-Car Carriage. An apparatus of Combined Elevators, Fire Escapes, and Extinguishing Vantages to all Floors and Roofings; worked by telescopic screws.
- 130B. **W. Timms, 13, Effingham Road, Reigate.**  
Timms's Electrical Automatic Fire Alarm.
- 130C. **C. W. Garth, 69, Astley St., Dukinfield, Manchester.**  
Model of Travelling Fire Escape, to be Fixed Outside Walls.
- 130D. **G. Jones, Ryecroft Chain Works, James St., Walsall.**  
Model of the Presto Fire Escape, made entirely of Steel, to Fold and Pack in a Small Case about 30 inches by 18 inches. Can be kept always ready in Bedrooms, Workrooms, Offices, etc.
- 130E. **A. Dinger, 4, Western Rd., Littlehampton, Sussex.**  
Dinger's "First Aid" Jumping Sheet.
- 130F. **J. Vila Forns, Constitucion 14, Gerona, Spain.**  
Electrical Apparatus, "Fenix," an Automatic Fire Alarm, with working Thermometer measuring the temperature of a Fire at a distance.

# Imperial Court.

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## INTRODUCTION TO THE EXHIBITS.

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In the same way as the Queen's Palace is primarily intended to contain exhibits relating to Fire Prevention and Constructive side of Fire Protection, so the Imperial Court is intended to primarily contain Appliances used for Fire Extinguishing and Life Saving.

This Court might equally well be termed the Fire Appliances Court, for by far the greater area of exhibits relate to this specific side of the subject, and the principal exhibitors are leaders of our own fire appliances trade.

It is here that we find exhibits of the great London firms, of whom we are all so proud, for it was by their initiative and by their energetic development that the steam fire engine, the great fire fighting appliance of the last century, was perfected and introduced all over the world, afterwards to be copied and further developed in Continental and American countries.

We pride ourselves to be second to none in mechanical construction and finish, and the great makers of our steam fire engines rightly hold the primary position in this speciality which no other nation would think of doubting.

The history of these firms alone, to a great extent, supplies the history of the development of the principal fire appliance of the country, namely, the steam fire engine. From other exhibits it will be seen that the most modern requirements of the chemical fire fighting appliances and of life saving implements are being catered for, so that where Continental countries were perhaps, a few years ago, in advance of us—and this, let us add however, mainly owing to Governmental or Municipal encouragement and subsidy—we are now equally prepared to take the field, and we trust hold our own, not only in mechanical construction and finish, but also in novelty and design.

The Imperial Court will be the Mecca to which all pilgrims of fire fighting must stream from all parts of the world if they wish to see what Great Britain can do, and London in particular can do, in the way of splendid finished fire fighting machines and life saving apparatus, and we are happy to say they will also find in this Court some examples of what our Continental friends are doing in this direction. For whilst the German fire appliances will be found in the German Court, and some Swedish and French appliances found in the Queen's Palace, it is here that we find exhibits thoroughly representative of Austria and Belgium.

Combined, we may say that our English fire appliance

exhibits and those of the Continental nations, distributed in different parts of the grounds, give us an epitome of what is valuable for fire fighting and life saving in Europe, representative in every way of the ideas, methods, and manufactures of the principal countries of the Eastern Hemisphere.

In the same way, however, as some important fire appliance will be found located in the fire prevention group of the Queen's Palace, so do we here in the Imperial Court find some important exhibits relating to the Fire Prevention Section. Several British and Foreign firms of note interested in fire resisting construction, and notably firms who specialise in the fire resisting equipment of record offices and similar institutions, have preferred to place their exhibits in this Court, and it is only doing justice to these firms to remind the visitor that here are exhibits that must be considered and compared in conjunction with those of the Queen's Palace as being of high interest and great practical utility.

It should perhaps be added that in the same way as the Executive of the British Fire Prevention Committee was particularly active and interested in the arrangement of the exhibits of the fire preventive side, so it is here with the exhibits of fire appliances that the Executive of the National Fire Brigade Union have taken a particular active part in advising what should be gathered together for this occasion with a view of showing what Europe can do in the matter of fire fighting and life saving equipment.

**131. Stuart's Granolithic Stone Co., Millwall, E.**

Specimens of Stuart's Patent Granolithic.

Makers of the Strongest and Lightest Floors ever invented, and absolutely Fire-proof; also of Fire-proof Staircases and Landings, and Stone for all Architectural purposes. Granolithic Stone can be had any size or shape.

**132. J. A. King & Co. ("Mack" Fireproofing), 181, Queen Victoria Street (next Blackfriars Bridge), London, E.C. Works: Hayes, Middlesex.**

Sole British Manufacturers of Mack's Patents.

"Mack" Patent Fire-proof and Sound-proof Slabs, Blocks and Lathing. Tested by the British Fire Prevention Committee to a temperature of 2,250 degrees Fahr. "Mack" Fire-proof Partitions. "Mack" Fire-proof Floors. "Mack" Fire-proof Ceilings. "Mack" Fire-proof Pugging for Wooden Floors. "Mack" Fire-proof Slabs for Insulation and Fire-proofing of Roofs. "Mack" Fire-proof Lathing for Encasing Columns, Girders, and Stanchions; Forming Coves, etc. This Lathing is not made from metal, therefore cannot rust or corrode.

British Steel Corner-plate for forming the External Angles in Plastering. This invention is a Galvanized Steel Rail fixed with Metal Clips to the Brick-work, and saves a great amount of



labour in plastering. No plaster screeds are required when this is used.

“Gypo” Fire-resisting Plaster has been used throughout this Exhibit for the plastering of the Slabs; it dries quickly, and may be painted about forty-eight hours after being applied, and, on account of its lightness, a great saving of weight may be attained in buildings by its use.

133. **Stuart & Moore, Victoria Engineering Works,  
Ealing, W.**

Fire Telegraph Apparatus, Street Fire Alarms, Fire Alarms for Asylums, Workhouses, etc. Electric Call-bell Systems for Fire Brigades. Fire Bells and Gongs. Quick-opening Door Apparatus for Fire Engine Houses. Electrical and Mechanical Time-Saving Devices. Swinging Harness and Quick-Hitching Appliances. Telephones and Electric Bells, Electric Gas Lighting Apparatus. Pompier Ladders and Accessories. Chemical Fire Extinguishers.

134. **Bewlay & Co., Ltd., 49, Strand, W.C.**  
Flor de Dindigul Cigars. Tobacco, Pipes, Cigarettes.

135. **Shand, Mason & Co., 75, Upper Ground Street,  
Blackfriars Road, S.E.**

Shand, Mason & Co.'s Patent “Double Vertical” Steam Fire Engine, as supplied to H.M. Government, the leading Fire Brigades in Great Britain and the Colonies, principal foreign Governments and Municipalities, etc. With new and important improvements. Eight sizes, capacities 200 to 1,000 gallons per minute.

Engine fitted with Shand-Mason world-successful quick-steaming boiler, in which steam of 100 lb. pressure is raised from cold water in  $5\frac{1}{2}$  to 7 minutes from lighting fire. Fire can be lit from bottom while travelling by new patent lighting arrangement.

Furnace arranged on the up-to-date side-stoking principle specified by London County Council, Glasgow, and other leading Fire Brigades. Gives greater freedom for work of engineer and firemen with greater safety when travelling, and permits more accessible arrangement of parts and deeper suction lift.

Shand, Mason & Co.'s improved light “Double Vertical” Steamer, with patent variable steam expansion arrangement, adopted with such successful results in reducing weight, economising fuel, lessening noise in working and emission of sparks, amongst other advantages.

Shand, Mason & Co.'s improved “Double Vertical” Steamer, with perfected oil-fuel arrangement, by which steam can be raised with rapidity and ease and fully maintained by the regulation of two cocks. Does away with smoke, sparks and cinders. Carries in its own tanks sufficient fuel for  $2\frac{1}{2}$  to 3 hours' full working.

*N.B.—The six new Shand-Mason Engines just delivered to the London County Council (Metropolitan Fire Brigade) are fitted with the expansion arrangement and oil-fuel furnaces. With these Engines the Brigade are enabled to raise 100 lb. pressure from cold water in 5 to 5½ minutes, or where 30 lb. pressure is maintained in the boiler by gas heater, 100 lb. can be reached in 1 to 2 minutes from time of lighting oil burner.*

Shand, Mason & Co.'s "New Volunteer" Light Single-Cylinder Steamer, with quick-steaming boiler. Two capacities, 120 and 200 gallons per minute.

Shand, Mason & Co.'s "Manor House" Light Two-wheel Steam Fire Engine for Estates, Institutions, and other private protective purposes. Two capacities, 100 and 150 gallons per minute. Fitted with quick-steaming boiler, and mounted upon trunnions upon carriage. Instantly dismounted for working. Throws powerful jet 120 to 130 feet high, or two slightly smaller ones to good working height.

Shand, Mason & Co.'s Patent "Brigade" Manual Fire Engine of highest construction, embodying important improvements, increasing efficiency 20 per cent. Increased area of valves, valve boxes, waterways and air vessels; new arrangement of suction and delivery valves, by which they may be exposed for examination in a few seconds; delivery outlets at back instead of at sides; greater accessibility of working parts and fuller accommodation in Hose Box; has seats for 8 to 10 firemen, and is adapted for rapid travelling. Size for 22 pumpers. Several sizes made.

Shand, Mason & Co.'s Patent Horse Fire Escape, combined with Hose Carriage, as supplied to leading Fire Brigades. Combining the well-known Shand-Mason "Lattice Girder" Escape, famous for its strength and rigidity, with handy and complete Four-wheel Carriage for Firemen, Hose, etc. Escape horizontal when travelling; minimum of projection over horses' backs; no projection beyond carriage wheels; contents of Hose Box immediately accessible without removing Escape; rapidly dismounted and brought into use.

Shand-Mason improved 80 ft. Horse Fire Ladder. Most successful for Fires in tall Buildings. Rapidly driven with men and appliances; quickly dismounted for use, and capable of reaching the tops of Buildings of six or more Floors. Constructed on same principle as Escape described in last paragraph.

Shand, Mason & Co.'s Patent Hand "Curricie" Fire Escape. Most up-to-date Machine for hand propulsion, suitable for Brigades and private use. Travels in horizontal position; ladders on the Shand-Mason "Lattice Girder" system; sliding carriage arrangement superseded, simplifying handling. Constructed in sizes 25 to 60 feet. Smallest sizes easily run and extended by one man.

Patent Shand-Mason Convertible Spray Nozzle, giving solid jet of varying size, full spray shield, or combined spray shield and solid stream, without stopping Engine; also provides effective

shut-off without interfering with waterway of nozzle. Protects branchman against heat and smoke.

Shand, Mason & Co.'s Patent "Sure-lock" and "Hudson" Couplings. Feature: while instantaneous in action they are also perfectly secure when connected; no strain on spring bolt, therefore free from liability to give way under pressure; provision for varying fold in hose, thus preventing uneven wear at crease.

Shand, Mason & Co.'s latest and most improved forms of Portable Fire Appliances for Brigade and private use. "London Brigade" Hand Pump. New pattern "Corridor" Fire Engines for one or two Pumps. "Tozer" Fire Pump. Patent Portable Chemical Fire Engine or "Extincteur." Large size Shand-Mason Chemical Engines as supplied to Brigades, etc.

Shand, Mason & Co.'s two special brands of Hand-Woven Canvas Fire Hose, "Southwark" (18 strand) and "Bear" (24 strand), of exceedingly high quality, of great durability, and capable of withstanding very high pressure. Used in all quarters of the Globe.

Highest Quality Shand-Mason copper rivetted leather Hose. Recommended for hard wear.

Shand, Mason & Co.'s newest patterns Hose Carriages and Reels for hand or horse draught, for use by Public Fire Brigades, Works, Institutions, etc.

"Parisian," or Shoot Escape for use from interior of buildings, possessing important advantages. For Asylums, Workhouses, Warehouses, Schools, Hotels, Residences, etc.

Patent Water Tower for Fire Escapes. Branch-pipe Holder for the easy handling of large Fire Streams. Quick-opening Fittings for Fire Station and Stable Doors. Loud-Sounding Gongs for Fire Brigade Vehicles.

Up-to-date Accessories for Fire Brigades, including:—Improved Hose Winders; Branch-pipes; Jet and Stand-pipes; Quick-Hitching Harness; Lamps of various forms and sizes; Canvas Cisterns or Dams; Respirators, Air Pumps, etc.; Hose Bands and Ladder Clips; "Pompier" Scaling Ladders; Fire Hooks, Knives, and Axes; Life Belts; Speaking Trumpets; Tools; Fire Brigade Hand-Books and other Literature.

High-class Uniform Equipments for Public and Private Fire Brigades.

**136. The Shannon Limited, Ropemaker Street, E.C.**

Steel Fittings and Furniture for Strong Rooms, Bank and Office Furniture, Shannon Letter Filing Cabinets, Desks, etc.

**137. M. C. Soulal, 49, Lillie Road, S.W.**

Embroidery, Lace Shawls.

**138. Maynards Limited, 1a, High Street, Stoke Newington.**

Confectionery.



139. **Columbian Fireproofing Co., Limited. 37, King William Street, E.C.**

Fire-proof Concrete Floors, sections of Roofs, etc., all constructed of our Patent Ribbed Bars and Concrete, and known and patented as the "Columbian System."

140. **Nunan's Hose Couplings, Ltd., 10, Norfolk St., W.C.**

Nunan and Store's Patent Hose Couplings, Hydrants, Branches, etc. Hose and Fire Appliances.

142. **Waddington & Co., 50, Bradfield Road, Owlerton, Sheffield.**

Waddington's Patent Portable Fire Escape, "The Monarch." With Rope Appliances, Life Line and Guide Lines, Ambulance Slings, Chair Slings, Loop Slings, with Life Lines for Brigade and Private use. The Escape is for use from the windows of mansions, hotels, hospitals, mills, factories, business premises and private dwellings of any height up to 200 feet.

143. **Bryant & May, Ltd., Fairfield Works, Bow. London, E.**

Bryant and May's Special Patent Safety Matches and Stands and Holders for same. Swan Vestas for Smoker's use and Stands. Club Matches and Stands.

144. **Oakes & Co., Ltd., of Madras.**

**Sole Agents: Oakes Bros., & Co., 46, New Broad St., E.C.**

Indian Cigars, Tobacco, Cigars, and Cigarettes generally. Pipes and Tobacconists' Sundries.

145. **Merryweather & Sons, Limited, Greenwich Rd., S.E., and 63, Long Acre, London, W.C.; also 14 & 15, Arcade Chambers, St. Mary's Gate, Manchester.**

One Merryweather's Patent Motor "Fire King" Steam Fire Engine, with double cylinders and gun-metal pumps driven by sprockets and chain; improved wheel steering, foot and hand brakes, fired with petroleum and carrying oil, water, hose and all appliances, as well as Firemen. As adopted by the Fire Brigades of Brighton, Liverpool, Portsmouth, Plymouth, Tottenham, Leyland, Capetown, Alexandria (Egypt), Selangor (Straits Settlements), Wanganui (New Zealand), Port Louis (Mauritius), etc.

One Merryweather's Patent "Greenwich Gem" Double-Cylinder Vertical Steam Fire Engine as supplied to London, Liverpool, Bristol, Aberdeen, Hull, Exeter, and several hundred Fire Brigades at Home and Abroad. Fire door, hose connections, and all gauges, etc. at rear; can be stoked while travelling.

One Merryweather's Expansion Gear "Double Vertical" Steam Fire Engine, as supplied to the London County Council for the Metropolitan Fire Brigade.

One Merryweather's Patent "Kemik" Fire Engine, similar to those in use at Salford, Bristol, Wallasey, Johannesburg (Transvaal), etc., etc. Carries 60 gallons of powerful fire extinguishing liquid, also hose and fittings for using from street hydrants.

One Merryweather's Patent Pair-Horse Fire Escape and Combined Hose Tender, as supplied to Penge, Surbiton, Maidstone, Winchester, Birmingham, Southampton, Auckland (New Zealand), Capetown, etc., etc. Escape easily detachable. Tender carries men, hose, and all apparatus for working from street hydrants.

One Merryweather's Light Portable Steam Fire and Pumping Engine, "Valiant" pattern, for country mansion fire protection and water supply, as used by Earl Scarborough, Earl Fitzhardinge, Earl of Lonsdale, Baron H. de Worms, Baron F. de Rothschild, and other noblemen. Capacity, 200 gallons per minute. Weight, 11 cwt.

One Merryweather's "Valiant" Engine as above, small size. Capacity, 100 gallons per minute. Weight, 6½ cwt.

One Merryweather's Patent Petrol Motor and High Speed Noiseless Pump for mansion, hotel, and institutions water supply and fire protection. Delivers 3,500 to 4,000 gallons per hour.

One Merryweather's Combined Petrol Motor Combined Fire Engine and Escape.

One Merryweather's Combined Petrol Motor Hose Tender, Chemical Fire Engine, and Escape.

One Merryweather's Patent Electric "Hatfield" Pump, as supplied to the Marquess of Salisbury, K.G., to St. James's Hall, Hotel Russell, etc., etc., for augmenting the pressure in the fire-mains to protect the roofs and top floors of high buildings, and also for water supply in country houses and hotels. The pump is coupled direct to the electric motor, and will run noiselessly at speed from 600 to 1,000 revolutions per minute. It has 3 barrels and gun-metal pump pistons, and is also suitable for driving by means of turbines, water wheels, windmills, or oil or gas engines.

For other Fire Extinguishing and Water Supply Appliances, Merryweathers invite visitors to the Exhibition to call at their show rooms, 63, Long Acre, W.C. (opposite Covent Garden Opera House), where can be seen electric pumps at work, gas engine and pump, windmill and pump, electric lighting plant, and other Apparatus in motion. Tests of automatic sprinklers can also be witnessed; and selections of Fire Brigade equipments for public and private Fire Brigades are on view. Mining Experts are also invited to see the combined water supply and fire protection engine driving a gold stamp for prospecting purposes.

"London Brigade," "Tozer," and other Hand Fire Pumps, Hose Pipes, Couplings, Branch Pipes, Fittings, etc. Various Firemen's Equipments and Sundries.

For Ancient Fire Appliances lent by Merryweather and Sons, see Loan Section.

*Note.*—Merryweather and Sons are also lending two powerful steam Fire Engines and other apparatus for use in "Fighting the Flames" in the Empress Theatre.

146. **"The Hercules" Fire Engine and Appliances Co.,  
C. T. Crowden, Engineer, Motor Works, Leamington.**  
No. 1. "Hercules" Steam Fire Engine, capable of delivering 1,400 gallons per minute, of equilibrium type, having four Delivery Outlets, fitted with Double-ended Couplings. No. 2 "Hercules" Steam Fire Engine, capable of delivering 400 gallons per minute. One Motor Fire Tender and Escape, fitted with 24-h.p. "Crowden" Motor, fitted with 45 ft. Escape, the whole mounted on "Crowden" patent Motor Car Wheels, having four speeds up to 35 miles an hour. No. 4 One Motor Fire Tender and Chemical Engine, fitted with 24-h.p. "Crowden" Motor, with accommodation for six Firemen, and 50-gallon Chemical Engine and Hose and Reel complete.
147. **A. E. Brown, Essex Wharf, Whitechapel, E.**  
The Frazzi System Fire-Resisting Floors, Ceilings, Partitions, Roofs, and Firebricks. Portions of Complete Construction, Under Load and otherwise. Loose Samples and Models. Arthur E. Brown, Sole Importer into the British Isles, France, Belgium, Holland, and the South African Colonies.
148. **Compagnie Belge de Construction d'Automobiles,  
18, Place du Chatelain, Bruxelles.**  
Automobile Carriage for the Transport of Firemen.
150. **R. Czermack, Teplitz I/B u. Wien.**  
One Three-cylinder Steam Fire Engine, "Marion 1"; pumping capacity, about 525 gallons a minute, with three deliveries and patent sliding water-tap, patent central lubricating, super-heater, 45 horse-power, weighing about 2 tons 6 cwt. Pair-horse, Four-wheel Manual, "Nikolsburg"; it has a water capacity of 80 gallons, throwing a jet to about 150 ft. distance with two deliveries, patent sliding water-tap, patent coupling, etc. Two-wheeled Detachable Manual, "Pola," easily lifted off wheels; water capacity, 60 gallons per minute; it contains the latest patent improvements, and was included in the award at Paris, given for the Engine mentioned previously. Detachable Manual, "Excelsior," lifting off wheels, with all patent appliances; water capacity, about 40 gallons. Detachable Manual, "Siberia," easily removable off wheels; water capacity, about 35 gallons.
151. **Bayleys, Ltd., Newington Causeway, S.E.**  
Fire Escapes.
152. **Rock, Bros., 122, Edith Road, West Kensington.**  
Olive Wood, Mother of Pearl, and Enamelled Goods.
153. **Z. Tahan, 3, Castletown Road.**  
Jewellery and Sandal Wood.
154. **M. C. Soulal, 49, Lillie Road, S.W.**  
Jewellery. New Art Enamel on Gold and Silver, also Hand-painted Miniatures and other Artistic Work.  
*Imperial Gardens planted by Bellgrove & Co., 81, Fulham Palace Road, S.W.*  
*Western Gardens planted by G. M. Bick, 30, Meadow Road, Bromley, S.E.*



## ROYAL GALLERIES.

**D. Sifco & Co.**

A Persian House with Persian and other Oriental Goods.

**Rock Brothers, 122, Edith Road, West Kensington.**  
Jewellery.

**Mrs. McRae, 2, Harwood Mansions, Walham Green.**  
Jewellery.

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# ELYSIA.

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**Bellgrove and Co., Florists, 81, Fulham Palace Road, S.W.**  
Flowers and Plants.

**S. B. Saunders & Co., Bush Lane House, Cannon St., E.C.**  
Automatic Restaurant.

**Norman & Stacey, Ltd., Tottenham Court Road, W.**  
Furniture.

**Cursetji & Cooverji, 14, Park Mansions Arcade,  
Brompton Road.**

Oriental Art Goods, Jewellery, Chutney, Curry, etc.

**R. Krishna, 3, Castletown Road, West Kensington, W.**  
Oriental Goods, Art Wares, and Bijoutry, etc.

**Ahmed Djamal, 11, Souk El Attarine, Tunis, N. Africa.**  
Oriental Goods.

**Ahmed Djamal.**  
Oriental Palmistry.

**London & Provincial Dairy Co., Ltd., West Halkin  
Street; Belgrave Square, London, S.W.**

A representative "WORKING DAIRY," fully equipped  
with Modern Machinery.

**Cursetji & Cooverji, 14, Park Mansions Arcade,  
Brompton Road.**

Silk Goods and Millinery.

**M. C. Soulal, 49, Lillie Road, S.W.**  
Embroidery, Carpets, Furniture, and Jewellery.

**The Ambulance Department of the Order of St. John  
of Jerusalem, St. John's Gate, Clerkenwell.**

Complete equipment for the relief of Sick and Wounded. A  
First Aid Ambulance Station in active operation, with trained St.  
John's Nurses and Medical Officers in attendance, where cases of  
accidents receive attention.

**Spiers & Pond, Ltd., Bridge Street, Blackfriars.**  
Tea House and Café.

**Maynards Ltd., 1a, High Street, Stoke Newington.**  
Confectionery.

**Garofalo, 13, Tamworth Street, Fulham.**  
Cob Pipes.

## WHEEL SITE.

**Harry Kinnear, 121, Shepherd's Bush Road, W.**  
Jewellery, Fancy Goods, and Perfumery.

**Madame Alberta Chapman, 39, Grattan Road,**  
**W. Kensington.**  
Scientific Palmistry.

**J. S. Miller, 1, Warwick Road, Earl's Court, S.W.**  
Jewellery.

**G. Garofalo, 13, Tamworth Street, S.W.**  
Jewellery.

**A. Modiano, 35, Lillie Road, S.W.**  
Jewellery.

**Leon Marzouk, 25, Tournay Road, Walham Green.**  
Jewellery, Lace, Fancy Goods.

**V. Nelson, 13, Richmond Place, Earl's Court.**  
Silhouette Artist.

## WESTERN ARCADE.

1. **Wallace Jones, 2, Addison Court Gardens.**  
Mechanical Models, Silks, Jewellery, Bronzes, Oriental China.
- 2 and 3. **The Nugget Polish Co., Ltd., Vauxhall Street,**  
**Kennington Oval.**  
The Nugget Waterproof Polishes for Boots, Shoes, etc  
Black, Brown, and White Creams for same, also for Harness, Cycle  
Enamel, and Furniture.
4. **A. Alonzo, 21, St. James St., Brighton.**  
Jewellery, Fancy Goods, Silk Shawls, Lace.

5. **M. & E. Marx, 106, Walworth Road, S.E.**  
India Rubber Stamps, Stencil Plates, Marking Ink, Card Printing.
6. **Isaac Mizrahi, 50, St. Oswalds Road.**  
Silk Blouses, Embroideries.
- 7, 8, 9. **Isaac Mizrahi, 50, St. Oswalds Road.**  
Lace, Oriental Embroidery, Carpets and Rugs, Jewellery, and Fancy Goods.
10. **W. Langford, 65, Rostrevor Road, S.W.**  
Leather Cleaner. Paper Flowers.
11. **C. Fainlight, 29, Nicholas Street, St. Peter's Road, Mile End, E.**  
Gold Wire Jewellery, Fancy Jewellery, and Electrical Engraving.
12. **Mrs. L. Otway, 27, St. George's Mansions, Red Lion Square, W.C.**  
Handkerchiefs, Gloves, Hosiery. Embroidery Machine.
13. **J. Pickering, Woodside, Crown Hill, Upper Norwood.**  
Jewellery, Electro Plating. Gold and Silver is deposited upon Chains, Rings, Keys, and Brooches, etc., while the Visitor waits.
14. **R. Clayton & Co., 88, Bishopsgate Street, Within.**  
Byards E. Citriodora Oil, Byadine, etc.
15. **Meyer Ouhayoun, 22, St. Oswald's Road, S.W.**  
Jewellery.
16. **Meyer Ouhayoun, 22, St. Oswald's Road, S.W.**  
Postcards, Pencils, Pens, Purses. Electric Pocket Lamps.
17. **Mark Joseph, 371, Battersea Park Road, S.W.**  
Wire Working Specialities of all kinds in American Novelties to be seen manufactured at the Stand.
18. **Edwards Harlene Co., 95 & 96, High Holborn, W.C.**  
Junofloris, a remarkable preparation for preserving cut flowers in water. Fading, drooping, dying cut flowers and blooms of every description are revived and given a new life, and their freshness, fragrance, and beauty preserved for a marvellous length of time.
19. **C. Fainlight, 29, Nicolas Street, St. Peter's Road, Mile End.**  
Electro-Plated Goods, Fancy Goods. Electric Engraving Machine.
20. **Ed. Hesse, 15, Milton Mansions, Queen's Club Gardens, W. Kensington.**  
Sheet Music.



21. **Y. Feigenblum, 8, St. Oswald's Road, S.W.**  
Monograms and Thimbles.
- 22 and 23. **Gabai & Aboav, Hotel Regina, Nice.**  
Silks, Embroidered Dresses and Blouses, Shawls, Scarves,  
Handkerchiefs. Blouses made to measure. Paris Fashion.
24. **H. Marks, 3, Lovis Road, West Kensington Park.**  
Embroidery, Lace, Handkerchiefs. Embroidery Machine.
25. **Tom Riley, 3, Racton Road, Fulham.**  
Electric Tattooing by the Leading Society Tattoo Artist.  
Coats of Arms, Family Crests, or any design artistically executed  
in any colour.
- 26 and 27. **Mark Joseph, 371, Battersea Park Rd., S.W.**  
Josefina British and Colonial Bazaar. The noted Stands for  
all Novelties. Specialities in Pearls, Chains, and Jewellery of  
every description, and Fancy Goods.
28. **Madame Annie Oppenheim, 73, St. George's Sq., S.W.**  
Scientific Character-reading and Books on Physiognomy.
29. **Litsica Marx & Co., 174, High Holborn.**  
Cigarettes, Cigars, and Smokers Requisites.
30. **Madame de Grave, 151, Boulevard von Iseghem, Ostend)**  
Brussels Lace.
- W. L. Jenkins, 116, C mwell Road, South Kensington.**  
Photographs.
31. **Madame de Para, The Rosary, 42, Priory Road,**  
**Bedford Park.**  
Character-Reading by Scientific Palmistry.
32. **Miss Hughes, 22, Ponsonby Terrace, Vauxhall Bdg. Rd.**  
Jewellery and Fancy Goods. Perfume and Flowers.
33. **The International Jewellery and Fancy Stores,**  
**12, Cottage Grove, Mile End, E. (Proprietor—H. Berliner)**  
Fancy Goods and Jewellery.
34. **A. E. Gutmann & Co., 8, Long Lane, Aldersgate St., E.C.**  
Gold Paint.
35. **Harry Kinnear, 121, Shepherd's Bush Road, W.**  
Jewellery and Fancy Goods.
36. **M. Haggiag, 32, St. Oswald's Road.**  
Embroidery and Lace.
37. **M. Haggiag, 32, St. Oswald's Road.**  
Jewellery.
38. **Y. Feigenblum, 8, St. Oswald's Road.**  
Gyrosopes.

39. **William Fainlight, 29, Nicholas Street, Mile End, E.**  
Fancy Jewellery and Fancy Goods.
40. **Moore's Nonleakable Fountain Pen Co., 23, Fore Street**  
**Avenue, E.C.**  
Fountain Pen.
41. **Maymon Bros., 8a, Aldgate Avenue, E.C.**  
Turkish Embroideries, Jewellery.
42. **E. T. Heron & Co., 9, Tottenham St., Tottenham Ct. Rd.**  
Aluminium Articles.
43. **Mrs. Hesse, 31, Seagrave Road, West Brompton.**  
Gold Wire and Fancy Jewellery.
44. **Miss Temple, 190, Gt. College St., Camden Town.**  
Perfumery. Mechanical Toys.
45. **Theo. Frackai, 87, Leidschakade, Amsterdam.**  
Portrait Sketching in Crayon and Colours.
46. **London Novelty Stores.**  
Jewellery, Fancy Goods, and Latest Novelties.
47. **Meyer Ouhayoun, 22, St. Oswald's Road, S.W.**  
Crochet Lace
48. **Miss M. Hart, 21, Circular Road, New Kent Road, S.E.**  
Jewellery and Fancy Goods.
49. **Richard Godfrey Hall, Regent Place, Regent St., W.**  
Automatic Gas Lighter.
- 50 and 51. **The Erasmic Co., Ltd., 117, Oxford Street, W.**  
Manufacturers of the celebrated "Peerless" and "Elite  
Erasmic" Toilet Soaps, "Erasmic" Perfume, Toilet Requisites.
52. **Mrs. Holmes, 45, Minford Gardens, S.W.**  
Jewellery. Fancy Goods.
53. **Mrs. Holmes, 45, Minford Gardens, S.W.**  
Toys.
54. **A. McRae, 2 Harwood Mansions, Walham Green.**  
Jewellery.
55. **The Webb Lamp Co., 11, Poultry, E.C.**  
Anti-Splash Magic Filters in operation. Combination Anti-  
Splash Tap. This Tap forms a permanent Hydrant, always ready  
by taking off the Anti-Splash Nozzle and putting on Hose Fitting.
56. **Z. Tahan, 3, Castletown Road, West Kensington.**  
Jewellery, Embroidery, and Fancy Goods.
- A. **Shepperd, Lermy & Halberin, 200, Regent St., W.**  
Optical Goods and Instruments.
- B. **Waterfield Clifford & Co., Ltd., 40, Hatton Garden.**  
Phonographs and Accessories. Automatic Phonographs.



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**SUNLIGHT SOAP**

Saves Rubbing and Scrubbing.

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"This simple way"  
Makes washing play.

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Lessens the Worries of Life.

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**SUNLIGHT SOAP**

Preserves the Clothes.

LEVER BROTHERS, Limited, Port Sunlight, Cheshire.



# The Old Welcome Club.

THIS delightful retreat in the Western Gardens, which offers all the advantages and exclusiveness of a High-class Social Club out of doors, is now enjoying the Eighth year of its existence.

For the use of Members and their friends it is opened daily at noon during the Exhibition season, and closes in May, August, and September at 10.45 p.m., and in June and July at 11.15 p.m.

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K.G., K.P., G.C.B., O.M., G.C.S.I., G.C.I.E., D.C.L., LL.D.

*Chairman:—*

PAUL CREMIEU-JAVAL, J.P., Esq.

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MAJOR G. E. WYNHAM MALLT, *Secretary.*

Members may introduce three ladies and two gentlemen as Visitors to the Club every day that the Exhibition is open to Season Ticket Holders; and, while enjoying the novelty of a partly open-air Lunch or Dinner, or seated in the Comfortable Lounge Chairs on the Lawn, may listen to the excellent performance of the Grenadier Guards' Band in the stand opposite.

The much-appreciated right of membership is regulated upon the same lines as those of the best West End Clubs.

*All particulars may be obtained from the Secretary.*

# REFRESHMENT DEPARTMENT

CONDUCTED BY

**SPIERS & POND, Ltd., Refreshment Contractors.**

The Refreshment Department has again been entrusted to the well-known caterers, Messrs. Spiers and Pond, who have made arrangements to cater on the largest scale for every class of the community. It may be interesting to remember that this firm has now been before the public for over thirty years, during which time they have undertaken the catering for a very large proportion of the important Exhibitions which have from time to time been held in the metropolis of the Empire. They were the first representatives of English catering who ventured abroad, having had an important restaurant and buffet at the Paris Exhibition of 1867. They were the official caterers at a series of Exhibitions held at South Kensington in 1871 and the following years. They were appointed to cater for the Inventions Exhibition at South Kensington in 1885; for the Indian and Colonial Exhibition in 1886; and during the last few years they have catered at Earl's Court for the

Empire of India Exhibition, 1895,  
 Empire of India and Ceylon Exhibition, 1896,  
 Victorian Era Exhibition, 1897,  
 Universal Exhibition, 1898,  
 Greater Britain Exhibition, 1899,  
 Woman's Exhibition, 1900,  
 Military Exhibition, 1901,  
 Paris in London Exhibition, 1902.

It is instructive to bear in mind that at the earlier dates above mentioned the catering for an Exhibition was on singularly different lines from what it is at present. There was no provision for a set meal, and very little beyond the ordinary bun and sandwich could be obtained in such places. Now that the enterprise of the London Exhibitions, Limited, has made *al fresco* dining one of the commonplaces of life during the London summer season, the caterers have risen to the needs of the newer fashion, and dining of every description, from the cheapest to the most elaborate, is in vogue amongst all classes.

A short description of the various restaurants may now be attempted.

In the **QUEEN'S COURT** will be found

## TWO GRILL ROOMS,

where every variety of grill, and hot and cold joints, are provided for luncheon, dinner, and supper, at the ordinary prices of a modern restaurant. with a large selection of all kinds of other comestibles, as well as wines, spirits, liqueurs, and cigars. These rooms are situated at either corner of the Great Lake, and opposite

the Band Stand, where music is played daily during the dinner hours.

In addition there are ample buffets for light refreshments in close proximity.

In the **WESTERN GARDENS** is the

### **QUADRANT RESTAURANT,**

which has been entirely rebuilt, exquisitely decorated in Louis XV. fashion, and carpeted and furnished with the utmost taste and luxury. French windows open on to a fine terrace, looking out directly upon the Western Gardens, and in full view of the Music Pavilion. The cuisine is perfection, and a dinner vying with the best in London, and surrounded with unrivalled features of attraction, is served. That the public fully appreciate the perfection to which this department has been brought is evidenced by the fact that, in order to avoid disappointment, it is advisable to secure tables in advance by letter, telephone, or telegraph direct to the caterers. The table d'hôte luncheon is served from 12 to 3 o'clock at 3s. 6d., and a dinner from 6 to 9.30 at 7s. 6d.

In the Western Gardens there is also the

### **GARDEN RESTAURANT,**

where a 2s. luncheon is served from 12 to 3 o'clock, a shilling afternoon tea from 3.30 to 5.30, and a 3s. 6d. dinner from 6 to 10 p.m. This has been reconstructed in modern style, and the dinner will be found faultless, and to supply a long-felt want.

The Western Gardens also contain a

### **LAGER BEER HALL,**

wherein Lager Beer is served in the perfection of condition, together with a number of light and dainty English and Teutonic dishes, from opening until closing time. An orchestra serves to increase the popularity of this department.

In **ELYSIA**, at the north end of the grounds, is to be found the

### **CANTEEN,**

where a specially cheap tariff, to meet excursionists, is always in vogue. In this department a plate of cold meat is charged 6d., bread and cheese 2d., milk 1d., tea 2d., coffee 2d., mineral waters 2d., and all exciseable liquors at public-house prices. In this department also excursion parties can be accommodated, and special quotations for them will be made on application to the Refreshment Contractors.

In that part of the Exhibition grounds which is known as **ELYSIA**, South End, an entirely new

### **TEA PAVILION**

has been constructed for the service of tea, coffee, and light refreshments at the usual prices.

In addition to all the above, there are numerous bars and buffets in the grounds and buildings, where tea, coffee, temperance beverages, alcoholic liquors, light refreshments, cigars, and cigarettes can be obtained at the usual rates.



# INTERNATIONAL FIRE EXHIBITION

# Refreshment Tariff.

**SPIERS & POND, LTD., CONTRACTORS.**

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**Quadrant Dining Room, Western Gardens.**—Luncheon, 12 to 3 o'clock, 3s. 6d. ; Dinner, 6 to 9.30, 7s. 6d.

**Garden Restaurant, Western Gardens.**—2s. Luncheon, 12 to 3 o'clock ; 1s. Afternoon Tea, 3.30 to 5.30 ; 3s. 6d. Dinner, 6 to 10.

**Lager Beer Hall, Western Gardens.**—English and German Dishes and Light Refreshments ; Lager Beers.

**Grill Room, Queen's Court.**—Luncheons, Dinners, and Suppers at ordinary grill-room prices, noon till 11 p.m.

**Queen's Restaurant, Queen's Court.**—Same as Grill.

**Canteen in Elysia.**—Plate of Cold Meat, 6d. ; Bread and Cheese, 2d. ; Milk, 1d. ; Tea, 2d. ; Coffee, 2d. ; Mineral Waters, 2d. Liquors at public-house prices. Special quotations for Excursion Parties on application to the Refreshment Contractors.

**Tea Pavilion, Elysia.**—Tea, Coffee and Light Refreshments at usual prices.

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***Special Tariff for Excursion Parties, large or small, by pre-arrangement with the Caterers.***

# EARL'S COURT.

## OMNIBUS ROUTES.

LONDON GENERAL OMNIBUS COMPANY, LIMITED.

*The following services of Omnibuses PASS THE EARL'S COURT EXHIBITION, viz.:—*

### FULHAM (PRINCE OF WALES) AND OXFORD CIRCUS.

Colour : BLUE (White panel).

*Viâ* Lillie Road, Brompton Road, South Kensington Station, Sloane Street, Piccadilly, Piccadilly Circus, Regent Street, Oxford Circus.

### WEST KENSINGTON (CLARENCE) AND LIVERPOOL STREET.

Colour : WHITE (Red panel).

*Viâ* Walham Green, Chelsea, Victoria, Westminster Bridge and Charing Cross Stations, Strand, Bank, Liverpool Street.

### WALHAM GREEN AND SHEPHERD'S BUSH.

Colour : GREEN.

*Viâ* Walham Green, North End Road, West Kensington Station, Addison Road Station, Shepherd's Bush Station.

### WEST KENSINGTON AND SHOREDITCH.

Colour : BROWN (Red side panels) Route "L."

*Viâ* North End Road, Lillie Road, Richmond Road, Old Brompton Road, South Kensington Station, Brompton Road, Knightsbridge, Hyde Park Corner, Piccadilly, Piccadilly Circus, Regent Street, Waterloo Place, Charing Cross, Strand, Fleet Street, Ludgate Circus, Ludgate Hill, St. Paul's Churchyard, Cannon Street, Queen Victoria Street, Bank, Threadneedle Street, Bishopsgate Street, to Shoreditch.

Return *viâ* Liverpool Street and Broad Street to Bank.

### WEST KENSINGTON AND MILE END.

Colour : LIGHT GREEN (White panel).

*Viâ* "Clarence," West Kensington, Lillie Road, Old Brompton Road, South Kensington Station, Sloane Street, Piccadilly, Shaftesbury Avenue, Holborn, Bank, Cornhill, Leadenhall Street, Aldgate, Whitechapel, Burdett Road.

### PUTNEY AND BRONDESURY.

Colour : BLUE (Red panel).

*Viâ* Putney High Street, Fulham, Walham Green, Lillie Road, Earl's Court Road, Kensington Church, Church Street, Notting Hill Gate, Westbourne Grove, Richmond Road, Harrow Road, West Kilburn, High Road, Kilburn.

### WEST HAMPSTEAD, OR FINCHLEY ROAD, AND FULHAM ROAD.

Colour : BLUE.

*Viâ* Earl's Court Road as above, to Kilburn High Road, thence *viâ* Quex Road and West End Lane, to West Hampstead and Kilburn Priory, and Canfield Gardens to Finchley Road.

### KENSINGTON AND ISLINGTON.

Colour : WHITE.

*Viâ* Earl's Court Road as above, to Westbourne Grove, thence *viâ* Paddington, Praed Street, Edgware Road, Marylebone Road, Euston Road, Pentonville, passing the G.W., G.C., L. & N.W., Mid., and G.N. Railway Stations.

## THE LONDON ROAD CAR COMPANY, LIMITED.

*This Company has Four Routes of Omnibuses which immediately PASS THE ENTRANCES TO THE EARL'S COURT EXHIBITION PREMISES. The particulars of same are as follows:—*

### WEST KENSINGTON AND SHOREDITCH.

Colour : BROWN (Red side panels). Route Letter "L."

*Viâ* North End Road, Lillie Road, Richmond Road, Old Brompton Road, South Kensington Station, Brompton Road, Knightsbridge, Hyde Park Corner, Piccadilly, Piccadilly Circus, Regent Street, Waterloo Place, Charing Cross, Strand, Fleet Street, Ludgate Circus, Ludgate Hill, St. Paul's Churchyard, Cannon Street, Queen Victoria Street, Bank, Threadneedle Street, Bishopsgate Street, to Shoreditch.

Return *viâ* Liverpool Street and Broad Street to Bank.

Service every Nine Minutes.

### WEST KENSINGTON AND LONDON BRIDGE.

Colour : BROWN (Blue side panel). Route Letter "B."

*Viâ* Cedar's Hotel, North End Road, Lillie Road, Richmond Road, Old Brompton Road, South Kensington Station, Brompton Road, Knightsbridge, Albert Gate, Hyde Park Corner, Piccadilly, Piccadilly Circus, Shaftesbury Avenue, Charing Cross Road, New Oxford Street, Holborn, Holborn Viaduct, Newgate Street, General Post Office, Cheapside, Bank, King William Street, Monument, over London Bridge to Railway Station Yard.

Service every Nine Minutes.

### FULHAM PALACE ROAD AND OXFORD CIRCUS.

Colour : BROWN. Route Letter "K."

*Viâ* "The Greyhound," Fulham Palace Road, Lillie Road, Richmond Road, Old Brompton Road, South Kensington Station, Brompton Road, Knightsbridge, Albert Gate, Hyde Park Corner, Piccadilly, Piccadilly Circus, Regent Street to Oxford Circus.

Service every Eight Minutes.

### PUTNEY AND BRONDESBURY.

Colour : ORANGE. Route Letter "Q."

*Viâ* Putney Station, Putney High Street, Putney Bridge, Fulham High Street, Fulham Road, North End Road, Lillie Road, Earl's Court Road, Kensington High Street, Church Street, Silver Street, Notting Hill Gate, Pembridge Villas, Richmond Road, Great Western Road, Waltherton Road, Cambridge Road, High Road, Kilburn, to Brondesbury.

Service every Twelve Minutes.

### PUTNEY AND OXFORD CIRCUS.

Colour : ORANGE. Route Letter "S."

Same as "Q" Route to Richmond Road, and thence *viâ* Westbourne Grove, Paddington Station, Praed Street, Chapel Street, Baker Street, and Oxford Street to Oxford Circus.

Service every Twelve Minutes.



# TRAINS FROM THE EXHIBITION. DISTRICT RAILWAY.

## EVENING TRAINS LEAVE

### Earl's Court Station

At the following times for :

Notting Hill and  
Ladbroke Grove, West-  
bourne Park, Royal Oak,  
and Bishop's Road.

P.M.	P.M.
5.25	8.55
5.55	9.25
6.25	9.55
6.55	10.25
7.25	10.55
7.55	11.25
8.25	11.55

Willesden,  
Camden Town,  
Highbury, Dalston,  
Broad Street, &c.

P.M.	P.M.
5. 5	9.35
5.35	10. 5
6. 5	10.35
6.35	11. 5
7. 5	11.35 HH
7.35	Midnight
8. 5	12. 5 WJ
8.35	
9. 5	

### Calling at

Addison Road  
(Kensington)

Uxbridge Road (for  
Shepherd's Bush)

St. Quinton Park and  
Wormwood Scrubbs

Willesden

Kensal Rise

Brondesbury

West End Lane

Finchley Road and  
Frogna

Hampstead Heath

Gospel Oak

Kentish Town

†Camden Town

†Maiden Lane

†Caledonian Road  
and Barnsbury

\*Highbury and  
Islington

\*Canonbury

\*Mildmay Park

†Dalston Junction

†Haggerston

†Shoreditch

Broad Street

H.H. This train does not go beyond  
Hampstead Heath.

W.J. This train does not go beyond  
Willesden. Arrive 12.22 midnight.

†Change at Camden Town for Maiden  
Lane and Caledonian Road and Barnsbury.

\*Change at Highbury and Islington for  
Canonbury and Mildmay Park.

†Change at Dalston Junction for  
Haggerston and Shoreditch.

## EVENING TRAINS LEAVE

### West Brompton Station (District Railway)

At the following times for :

City, Whitechapel,  
Bow Road, East Ham  
(for Tilbury Line)  
and New Cross.

P.M.	P.M.
5.13 W.	8.30 * X.
5.22 W.S.	8.37 *
5.22 E.X.	8.53 B.
5.37 B.S.	9. 7 E.
5.37 E.X.	9.22 N.C.
5.43 X.	9.37 *
5.56 B.	9.52 B.
6. 7 B.S.	10.0 * X
6.13 X.	10.5
6.22 E.	10.14
6.33 *	10.33 *
6.38 E.	10.54 B.
6.53 E.X.	11.18 E.
6.53 B.S.	11.18 *
7. 0 * X.	11.139E
7. 7 *	11.52*
7.23 E.	11.58B
7.30 * X.	Not
7.37 *	to New
7.53 E.	Cross.
8. 0 * X.	
8. 7 *	
8.23 W.	

Putney Bridge and  
Wimbledon.

P.M.	P.M.
5. 8 W.†	8.8
5.18 X.	8.21 W.
5.28 W.	8.38
5.38	8.51 W.
5.46 W.	9. 8 W.
5.58 W.	9.20
6. 8 X.	9.28 W.X
6.16 W.†	9.34 W.S
6.28 W.	9.47
6.38 X.	10. 4 W.
6.44 S.	10.20 W.
6.47 W.X.	10.34
6.58 W.	10.48 W.
7. 8 X.	11. 9 W.
7.14 S.	11.24
7.18 W.X.	11.34 W.
7.28 W.	11.58 W.
7.38	12.24 W.
7.51 W.	12.38
7.58 X.	

### Calling at

Walham Green.  
Parsons Green.  
Putney Bridge.

East Putney.  
Southfields.

Wimbledon  
Park.

Wimbledon.

W. Wimbledon  
trains.

†Not beyond Putney  
Bridge on Saturdays.

X. Saturdays excepted.  
S. Saturdays only.

Shadwell.

Wapping.

Rotherhithe.

Deptford Road.

New Cross.

X. Saturdays excepted.

S. Saturdays only.

W. Whitechapel trains

N.C. New Cross trains.

B. Bow Road trains.

E. East Ham trains.

### Calling at

Earl's Court.  
Gloucester Road.

South Kensington.

Sloane Square.  
Victoria.

St. James' Park.

Westminster.

Charing Cross.

Temple.

Blackfriars.

Mansion House.

Cannon Street.

Monument.

Mark Lane.

Aldgate East.

St. Mary's.

Whitechapel.

Stepney Green.

Mile End.

Bow Road.

Bromley.

West Ham.

Plaistow.

Upton Park.

East Ham.

\* To High Street (Kensington), passengers for  
Gloucester Road and stations beyond, by these trains,  
change at Earl's Court.

† Not to West Ham.

Trains leave Gloucester Road and High Street  
(Kensington), for Baker Street, King's Cross, &c., at  
10 minutes' intervals. Last train, 12.2 from Gloucester  
Road, 12.5 from High Street (Kensington).

Passengers for stations beyond Whitechapel should  
enquire whether the Train stops at their station.

Wimbledon  
Line  
Stations.

For further Particulars see the Company's Time Tables.

# TRAINS FROM THE EXHIBITION.

## DISTRICT RAILWAY.

### Evening Trains leave West Kensington Station

At the following Times for :

CITY, WHITECHAPEL, AND NEW CROSS. BOW ROAD, EAST HAM (for Tilbury Line).					RICHMOND, CHISWICK PARK, EALING, AND HOUNSLOW.		
P.M.	P.M.	P.M.	P.M.	P.M.	To Richmond.	To Chiswick Park and Ealing.	To Hounslow (change at Mill Hill Park unless otherwise shown).
5. 2 NC	6.11 EX	7.41 B	9.31	11.†32 E			
5.11 E	6.11 BS	7.50 *X	9.41 E	11.†49			
5.18 *	6.22 *	8. 2 NC	9.48 *	12.18 M			
5.26 BX	6.32 NC	8.11 E	10.2 NC		P.M.	P.M.	P.M.
5.32 NC	6.42 W	8.19	10.11		5. 2	5.13	5.13 S
5.41 EX	6.51 *	8.31 NC	10.22NC		5.32	5.23*	5.†21 X
5.41 BS	7. 2 NC	8.41 E	10.41 E		6. 2	5.43	5.43 S
5.50 *X	7.11 B	9. 1 NC	10.51 *		6.32	5.*†53	5.†53 X
5.51 S	7.21	9.11 E	11.2 NC		7. 2	6.13	6.13 S
6. 2 NC	7.32 NC	9.18 *	11.19NC		7.32	6.23†*	6.†23 X
					8. 2	6.43	6.43 S
					8.32	6.52†*	6.†52 X
					9. 2	7.13	7.13
					10.2	7.23*	7.43
					10.32	7.43	8.13
					11. 2	8.13	8.43
					11.32	8.43	9.20
					12. 2	9.20	9.43
					12.26	9.43	10.20
						10.20	10.50
						10.50	11.20
						11.20	11.49
						11.49	12.†10
						12.10†	12.34
						12.34	
<p><i>Calling at</i></p> <p>Earl's Court Gloucester Road South Kensington Sloane Square Victoria St. James' Park Westminster Charing Cross Temple Blackfriars Mansion House Cannon Street Monument</p> <p>Mark Lane Aldgate East St. Mary's Whitechapel Stepney Green Mile End Bow Road Bromley West Ham Plaistow Upton Park East Ham</p> <p>Shadwell Wapping Rotherhithe Deptford Road New Cross</p>					<p><i>Calling at</i></p> <p>Hammersmith Ravenscourt Park Turnham Green Gunnersbury Kew Gardens Richmond Chiswick Park and Acton Green Mill Hill Park Ealing Common Ealing(Broadway) South Ealing Boston Road Osterley Heston-Hounslow Hounslow Town Hounslow Barracks.</p> <p>Richmond Line Stations.</p> <p>Ealing Line Stations.</p> <p>Hounslow Line Stations.</p>		
<p>M. Stations to Mansion House only. W. Whitechapel Trains. N.C. New Cross Trains. B. Bow Road Trains. E. East Ham Trains. S. Saturdays only. X. Saturdays excepted.</p> <p>*To High Street (Kensington). Passengers for Gloucester Road and Stations beyond, by these trains, change at Earl's Court. †Not to West Ham. ‡Change at Earl's Court for High Street, Kensington, and stations to Bow Road only.</p> <p>Trains leave Gloucester Road and High Street (Kensington) for Baker Street and King's Cross, &amp;c., at 10 minutes' intervals. Last train, 12.2 from Gloucester Road, 12.5 from High Street (Kensington). Passengers for stations beyond Whitechapel should enquire whether the train stops at their station.</p>					<p>T. Through train to Hounslow. * Not to stations beyond Chiswick Park on Saturdays. † Change at Mill Hill Park for Ealing Line. X. Saturdays excepted. S. Saturdays only.</p>		

For further Particulars see the Company's Time Tables.

# TRAINS FROM THE EXHIBITION.

## DISTRICT RAILWAY.

### Evening Trains Leave Earls Court Station

AT THE FOLLOWING TIMES FOR

CITY, NEW CROSS,  
WHITECHAPEL,  
BOW ROAD  
AND EAST HAM  
(For Tilbury Line).

PUTNEY BRIDGE  
AND  
WIMBLEDON.

RICHMOND, CHISWICK  
PARK, EALING AND  
HOUNSLOW.

Trains leave every few  
minutes up to 9 p.m.

P.M.	P.M.	P.M.
8.55B	10.8	11.24NC
9.5NC	10.14*S	11.742E
9.8	10.16E	11.55*
9.14E	10.25NC	12.0B
9.21*	10.36*	12.21
9.25NC	10.38	Not beyond Mansion House.
9.38	10.44E	
9.39*	10.54*	
9.44E	10.56B	
9.51*	11.5NC	
9.55B	11.8	
10.0*x	11.711E	
10.5NC	11.21*	

P.M.	P.M.	P.M.
5.6WM†	6.56WM	9.26} WM
5.16SE	7.6SE	9.32} WM
5.26WM	7.12SO	9.36} SO
5.36	7.16} WM	9.45
5.44WM	7.26WM	10.2WM
5.56WM	7.36	10.18WM
6.6SE	7.49WM	10.32
6.14WM†	7.56SE	10.46WM
6.26WM	8.6	11.7WM
6.36SE	8.19WM	11.22
6.42SO	8.36	11.32WM
6.45WM	8.49WM	11.56WM
(SE)	9.6WM	12.22WM
	9.18	12.36

To Rich- mond.	To Chiswick Park and Ealing.	To Hounslow (change at Mill Hill Park unless otherwise shown)
P.M.	P.M.	P.M.
4.59	5.10	9.17
5.29	5.20*	9.40
5.59	5.40	10.17
6.29	5.750*	10.47
6.59	6.10	11.17
7.29	6.720*	11.46
7.59	6.40	12.7
8.29	6.749*	12.31
8.59	7.10	7.10
9.59	7.20*	7.40
10.29	7.40	8.10
10.59	8.10	8.40
11.29	8.40	9.17
11.59		
12.23		

#### Calling at

Gloucester Mark Lane  
South [Rd. Aldgate E.  
Kensington St. Mary's,  
Sloane Sq. Whitech'p'l  
Victoria Stepney  
St. James' Green  
Park Mile End  
Westminster Bow Road  
Charing X Bromley  
Temple West Ham  
Blackfriars Plaistow  
Mansion H. Upton Park  
Cannon St. East Ham  
Monument  
Shadwell }  
Wapping } New  
Rotherhithe } Cross  
Deptford Rd. } Line  
New Cross } Stations.  
S. Saturdays only.  
x Saturdays excepted.

#### Calling at

West Brompton  
Walham Green  
Parsons Green  
Putney Bridge  
East Putney } Wimb-  
Southfields } don  
Wimbledon Pk. } Line  
Wimbledon } Stations.  
S.O. Saturdays only.

S.E. Saturdays Excepted.  
W.M. Wimbledon Line trains  
† These trains do not run  
beyond Putney Bridge on  
Saturdays.

#### Calling at

West Kensington  
Hammersmith  
Ravenscourt Park  
Turnham Green  
Gunnersbury } Richmond  
Kew Gardens } Line  
Richmond } Stations.  
Chiswick Park and }  
Acton Green } Ealing  
Mill Hill Park } Line  
Ealing Common } Stations.  
Ealing (Broadway) }  
South Ealing }  
Boston Road }  
Osterley } Hounslow  
Heston-Hounslow } Line  
Hounslow Town } Stations.  
Hounslow Barracks }

B. Bow Road trains.  
N.C. New Cross trains.

Trains leave Gloucester Road and High Street  
(Kensington) for Baker Street, King's Cross, &c.,  
at 10 minutes' intervals. Last train, 12.2 from Gloucester  
Road, 12.5 from High Street (Kensington).

Passengers for stations beyond Whitechapel should  
enquire whether the train stops at their station.

† Not to West Ham.

T Through train to Hounslow.  
\* Not to Stations beyond  
Chiswick Park on Saturdays.

† Change at Mill Hill Park  
for Ealing Line.

x Saturdays excepted.

s Saturdays only

c Does not call at Chiswick  
Park.

For further Particulars, see the Company's Time Tables.



# CAB DISTANCES FROM WARWICK ROAD ENTRANCE.

Measured by Authority of the Commissioner of Police of the Metropolis.

## Warwick Road, Trebovir Road, Earl's Court, to or from:—

	MILES.	YDS.
Albert Rd., Regent's Pk. Avenue Rd.	4	398
Bank of England Threadneedle St.	5	568
Battersea Bdge. Beauport St., Chelsea	1	664
Battersea Pk.		
Chelsea Suspension Bridge	2	1094
Bayswater Road Porchester Terrace	2	165
Bedford Square .. .. Bloomsbury	3	1643
Belgrave Square .. .. .	2	241
Berkeley Square .. .. .	2	1714
Boltons, The (N.W. Corner)		
W. Brompton .. .. .	—	1076
Bryanston Square .. .. Marylebone	3	257
Cambridge Circus (centre)		
Charing Cross Road	3	871
Campden Hill Road.		
Upper Phillimore Gardens	1	111
Campden Hill Sq. Holland Park Av.	1	1095
Castelnau, Barnes, Lonsdale Road		
Within Radius, 1 m. 276 yds.	2	127
Beyond Radius, —m. 1611 yds.	2	127
Cavendish Square .. .. Marylebone	3	1051
Charing Cross King Charles Statue	3	968
Chester Square St. Michael's Church	2	511
Clapham High Street, "The Plough"	3	1673
Clapham Common Broomwood Road	3	928
Dorset Square .. .. Marylebone	3	803
Downing Street Treasury Passage	3	1170
Earl's Court Road Cromwell Road	—	608
Eaton Square St. Peter's Church	2	619
Eccleston Sq. (S.W. Corner) Pimlico	2	1007
Edgware Road Marylebone Road	2	1683
Fleet Street .. .. Fetter Lane	4	636
Fulham Road		
W. London Cemetery, Brompton	—	1312
Fulham High Street, Fulham Road		
Within Radius, 1 m. 714 yds.	1	1403
Beyond Radius, —m. 689 yds.	1	1403
Fulham Palace Road, Lillie Road		
Within Radius, 1 m. 84 yds.	1	692
Beyond Radius, —m. 608 yds.	1	692
Gloucester Rd. Queen's Gate Terrace	—	1695
Gloucester Square .. .. Paddington	2	997
Golden Square .. .. St. James's	3	463
Grosvenor Place .. .. Chapel Street	2	633
Grosvenor Square .. .. Mayfair	2	1736
Grove End Road		
Circus Road, St. John's Wood	3	1233
Hamilton Terrace		
Abercorn Place, St. John's Wood	3	1300
Hammersmith Road Brook Green	1	65
Harley St. Devonshire St., Marylebone	3	1472
High Holborn Southampton Street	3	1684
Houses of Parliament		
Centre of Palace Yard	3	936
Lisson Grove Marylebone Road	3	366
London Bridge Adelaide Place, City	5	859
Long Acre .. .. St. Martin's Lane	3	881
Ludgate Circus .. .. City	4	1010
Manchester Square .. .. Marylebone	3	648
Marble Arch .. .. Oxford Street	2	1715
Marylebone Road .. .. Albany Street	4	179
Oxford Street .. .. Regent Circus	3	816
Oxford Street .. .. New Bond Street	3	701

	MILES.	YDS.
Paddington Green (S. Side)		
The Church	2	1752
Pall Mall .. .. War Office	3	352
Park Lane .. .. Grosvenor Gate	2	1561
Piccadilly .. .. Half Moon Street	2	1113
Piccadilly Circus .. .. Regent Street	2	235
Portland Place .. Weymouth Street	3	1545
Post Office (Gen.)		
St. Martin's le Grand	5	3
Red Lion Sq. (St. John's Ch.) Holborn	4	193
Regent's Park		
Cumberland Terrace (Centre of)	4	1090
Regent's Park .. .. Hanover Gate	4	2
Regent's St. Langham Pl., The Church	3	1150
Russell Square .. .. Bloomsbury	4	418
St. George's Sq. Lupus St., Pimlico	3	72
St. James's Sq. York St., St. James's	3	234
St. Paul's Churchyard Ludgate Hill	4	1346
Shaftesbury Avenue		
Broad Street, Bloomsbury	3	1209
Shepherd's Bush Green (East End of) ..	1	767
Sloane Square (S.E. Corner)		
Royal Court Theatre	1	1690
Railway Station .. ..	1	1690
Sloane Street .. .. Port Street	1	928
Soho Sq. (S.W. Corner) Frith Street	3	1014
Strand .. .. Law Courts	4	356
Tavistock Square St. Pancras	4	933

### RAILWAY STATIONS.

Addison Rd. West London Extension	—	1459
Cannon Street .. South Eastern	5	462
Charing Cross .. South Eastern	3	1184
Clapham Jun. (L.B. & S.C.)		
Prested Road Cab Stand	2	1757
Clapham Jun. (L. & S.W.) Cab Stand	3	247
Euston .. North Western	4	1563
Fenchurch Street .. Blackwall	5	1335
King's Cross .. Great Northern	5	190
Liverpool Street .. Great Eastern	5	1370
London Bridge .. London & Brighton	5	675
Mansion House Metropolitan District	5	109
Marylebone .. Great Central	3	622
Moorgate Street .. Metropolitan	5	886
Paddington .. Great Western	2	1280
St. Pancras .. Midland	4	1700
St. Paul's .. Chatham & Dover	4	1199
Vauxhall .. South Western	3	1150
Victoria (Centre of Frontage) ..	2	1203
Waterloo (L. & S.W.)		
Main Line Depart.	4	419
Westbourne Park Great Western	2	926

### THEATRES, PLACES OF AMUSEMENT, ETC.

Adelphi Theatre .. .. Strand	3	1256
Albert Hall .. .. Kensington Road	1	766
Alhambra .. .. Leicester Square	3	697
Drury Lane Theatre Catherine Street	3	1489
Haymarket Theatre .. ..	3	587

N.B.—The Distances are measured from the centre of Warwick Road, opposite the centre of Trebovir Road, to the centre of Roads, Entrance Gates of Hospitals and Cemeteries. Booking Offices of Railway Stations, the N.W. Corners of Squares, unless otherwise stated, and across Hyde Park when that route shortens the distance.

METROPOLITAN POLICE OFFICE, One Mile is 1,760 yards. E. R. C. BRADFORD,  
11th April, 1900. The Commissioner of Police of the Metropolis.

# CAB DISTANCES FROM WEST BROMPTON ENTRANCE.

Measured by Authority of the Commissioner of Police of the Metropolis.

## WEST BROMPTON STATION, RICHMOND ROAD, to or from:—

		MILES.	YDS.			MILES.	YDS.
Albert Rd., Regent's Pk.	Avenue Rd.	4	758	Queen's Road, Bayswater			
Bank of England	Threadneedle Street	5	613	Red Lion Sq. (St. John's Ch.)	Holborn	4	238
Battersea	St. Mary's Church, Ch. Rd.	1	1518	Regent's Park			
Battersea Bdge	Beaufort St., Chelsea	1	568	Cumberland Terrace (Centre of)		4	1294
Bedford Square	.. .. . Bloomsbury	3	1686	Regent's Park	.. .. . Hanover Gate	3	1625
Belgrave Square	.. .. .	2	228	Regent St.	Langham Pl., The Church	3	1195
Berkeley Square	.. .. .	2	1759	Russell Square	.. .. . Bloomsbury	4	463
Bloomsbury Square	.. .. .	4	69	St. George's Sq.	Lupus St., Pimlico	3	30
Boltons, The (N.W. Corner)	West Brompton	—	982	St. James's Sq.	York St., St. James's	3	279
Bryanston Square	.. .. . Marylebone	3	396	St. Paul's Churchyard	Ludgate Hill	4	1391
Buckingham Pal. Rd.	Ebury Bridge	2	578	Shaftesbury Av. Broad St., Bloomsbury		3	1254
Cambridge Circus (centre)				Shepherd's Bush Green (East End of)		1	1285
	Charing Cross Road	3	916	Sloane Square (S.E. Corner)			
Campden Hill Sq.	Holland Park Av.	1	1600		Royal Court Theatre	1	1648
Cavendish Square	.. .. . Marylebone	3	1096		Railway Station	..	1 1648
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## Calendar of Conflagrations.

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1903.

A Fire for every day in the month.

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### MAY.

- |      |     |  |
|------|-----|--|
| F.   | 1.  | Cheltenham Theatre and several houses, 1839.                     |
| S.   | 2.  | Japanese Exhibition, London. 1 killed, several injured, 1885.    |
| Sun. | 3.  | San Francisco. 2,500 buildings, 1851.                            |
| M.   | 4.  | Paris Charity Bazaar. 124 lives—"The élite of France," 1897.     |
| T.   | 5.  | Hamburg three days burning. £7,000,000 and 100 lives, 1842.      |
| W.   | 6.  | Milton Street, Cheapside. Damage £250,000, 1889.                 |
| Th.  | 7.  | Union Street, London, W.C. Woman burned, 1892.                   |
| F.   | 8.  | Grand Rapids, U.S.A. Conflagration, 1872.                        |
| S.   | 9.  | Scott's Supper Rooms, Haymarket, 4 youths killed, 1892.          |
| Sun. | 10. | Troy, U.S.A. 671 buildings, £600,000, 1862.                      |
| M.   | 11. | Brooklyn. Talmage's Tabernacle, 1894.                            |
| T.   | 12. | St. Helen's. Explosion and Fire, £100,000, 1899.                 |
| W.   | 13. | Barbados. Bridgetown destroyed, 1766.                            |
| Th.  | 14. | Dunedin, N.Z. £23,000 damage, 1890.                              |
| F.   | 15. | Peshawar (India). Great destruction, 1875.                       |
| S.   | 16. | Brest-Litovski (Russia). 1,200 houses, 1895.                     |
| Sun. | 17. | Bermondsey Leather Market, £150,000, 1895.                       |
| M.   | 18. | Chili. Congress Hall, Santiago, 1895.                            |
| T.   | 19. | Bradford. Wool Warehouse, £150,000, 1885.                        |
| W.   | 20. | Woolwich Arsenal, £200,000 damage, 1802.                         |
| Th.  | 21. | Fore Street, London, E.C. 4 lives, 1862.                         |
| F.   | 22. | Japan. 800 years old Temple, Hisango, 1898.                      |
| S.   | 23. | Brompton (London). Lord Romilly and 2 servants suffocated, 1891. |
| Sun. | 24. | China. Canton Theatre, 1,670 lives, 1845.                        |
| M.   | 25. | Paris Opera Comique, 115 lives, 1887.                            |
| T.   | 26. | France. Lyons Theatre des Celestins, 1880.                       |
| W.   | 27. | Plymouth. Sugar Refinery, 1866.                                  |
| Th.  | 28. | Quebec. Old City destroyed, 12,000 homeless, 1845.               |
| F.   | 29. | Berlin. £200,000 damage, 1886.                                   |
| S.   | 30. | Moscow. Four streets burnt out, 1892.                            |
| Sun. | 31. | Silver Mine, Bohemia, 319 lives, 1892.                           |



## JUNE.

- M. 1. Theatre, Monte Video, 21 killed, 100 injured, 1882.  
 T. 2. Incendiary Fires, London. Gordon Riots, 1780.  
 W. 3. Great conflagration at Panama, 1888.  
 Th. 4. Bishopsgate. Menagerie, etc. Lioness, etc., burned, 1884.  
 F. 5. Pera, Constantinople, 7,900 homeless. £5,000,000, 1870.  
 S. 6. Newgate Prison destroyed by rioters, 1780.  
 Sun. 7. St. Petersburg. 100 vessels, etc., 1795.  
 M. 8. Astley's Amphitheatre in  $\frac{3}{4}$ -hour, 1841.  
 T. 9. Copenhagen. 100 lives, 50 streets, 1794.  
 W. 10. Queen Victoria Street (London). 10 lives, 1902.  
 Th. 11. Edgware Road (London). 6 women, 1888.  
 F. 12. Bury Street, St. Mary Axe (London). Great Fire, 1811.  
 S. 13. Great Fire of Dublin, 1304.  
 Sun. 14. Pantheon, Oxford Street (London), 1792.  
 M. 15. Brook's Wharf (London). £200,000 damage.  
 T. 16. Tredegar (U.K.). New Pit Colliery, 26 lives, 1865.  
 W. 17. Whiteley's (London). £100,000 damage, 1885.  
 Th. 18. St. John's, Quebec. Big Fire, 1876.  
 F. 19. France. Warehouses at Lyons, 1883.  
 S. 20. New Brunswick, St. John. 1,000 homeless, 20 lives, 1877.  
 Sun. 21. Finsbury (London). Tabernacle Street. £160,000, 1894.  
 M. 22. Tooley Street (London). £2,000,000. Supt. Braidwood killed, 1861.  
 T. 23. Bradford. Mills, 2 Firemen killed, 1889.  
 W. 24. Newcastle. Big blaze, £70,000, 1866.  
 Th. 25. Italy. Fête at Dorvio, 48 lives, 1883.  
 F. 26. At Sea. S.S. "Montreal," 230 lives, 1857.  
 S. 27. China. 1,200 lives, at Luchow, 1889.  
 Sun. 28. Quebec. 30 streets destroyed, 6,000 homeless, 1845.  
 M. 29. Sydney (N.S.W.). R.C. Cathedral, 1865.  
 T. 30. Edinburgh. Theatre Royal, etc., 1884.

## JULY.

- W. 1. Paris. Holocaust, at Austrian Embassy, 1810.  
 Th. 2. Ensham (U.K.). Man burnt in prison cage, 1844.  
 F. 3. Portsmouth Dockyard. £400,000, 1760.  
 S. 4. Portland (U.S.A.). £2,250,000, 200 acres area, 1866.  
 Sun. 5. Duke's Theatre, London, 1880.  
 M. 6. Chicago. World's Fair Buildings, 1894.  
 T. 7. Royal Savoy Chapel, Strand (London) destroyed, 1864.  
 W. 8. St. John's (Newfoundland). £2,500,000, 1,800 houses, 1892.  
 Th. 9. The Abbey. Great Tower over Choir, 1803.  
 F. 10. London Bridge, 3,000 lives lost, 1212.  
 S. 11. Brussels, Palais d'Été, 1894.  
 Sun. 12. Lambeth (London). 5 lives, 300 injured, 1858.  
 M. 13. Kimberley (S.A.). De Beers Mine, 1888.  
 T. 14. Faversham (U.K.). Explosion, etc., 21 lives, 1847.  
 W. 15. Haydon Square, E.C. (London). 2 Firemen killed, 1852.  
 Th. 16. Constantinople. 15,000 houses and ships, 1816.  
 F. 17. Melbourne. S.S. "Hilaria." Superintendent killed, 1895.  
 S. 18. St. Mary Axe (London). £300,000 damage, 1893.  
 Sun. 19. Chamounix (Switzerland). Hotel d'Angleterre, 1885.  
 M. 20. New York. 300 buildings, £1,000,000 damage, 1845.  
 T. 21. Wapping (London). 630 houses, 1794.  
 W. 22. Broken Hill (Australia). Silver Mine, 1895.  
 Th. 23. Kremlin Palace, Moscow, destroyed, 1879.  
 F. 24. Adelaide. Great Fire, 1895.  
 S. 25. St. Luke's (London). Bridgman's Saw Mills, 1876.  
 Sun. 26. India. Tinnevely Theatre. 113 lives, 1886.  
 M. 27. Durban (South Africa). £70,000 damage, 1899.  
 T. 28. Liverpool. Great Landing Stage, £250,000, 1874.  
 W. 29. Ilfracombe (England). 35 buildings, 1897.  
 Th. 30. Russia. Libau, Great Fire, 1896.  
 F. 31. Inman S.S. "Glasgow." Destroyed at sea, 1865.

## AUGUST.

- S. 1. Chicago. Timber Yards, etc., £600,000, 1894.  
 Sun. 2. Merthyr Tydvil, Crombach Mine, 28 suffocated, 1845.  
 M. 3. Japan. Hiroshima Prison, 61 prisoners burnt, 1883.  
 T. 4. Drury Lane (London). 3 lives lost, 1897.  
 W. 5. Liverpool. Canada Dock, £100,000, 1893.  
 Th. 6. Whiteley's (London), £500,000 damage, 1887.  
 F. 7. Summerville Coal Pit, near Hamilton, 12 lives, 1861.  
 S. 8. Tottenham Oil Mills. River Lea on Fire, 1852.  
 Sun. 9. Dublin. Custom House destroyed, 1833.  
 M. 10. Turnmill Street, E.C. (London). £100,000 damage, 1876.  
 T. 11. Sydney (Australia). Large Boot Factory, 1895.  
 W. 12. Surrey Theatre (London) destroyed, 1805.  
 Th. 13. Fiume Harbour conflagration, 1894.  
 F. 14. Southall Park Asylum, 6 lives, 1883.  
 S. 15. Shanghai (China). £500,000 damage, 1879.  
 Sun. 16. Bolton. Cotton Mill, several lives, 1882.  
 M. 17. West Kent Wharf (London), £200,000, 1860.  
 T. 18. Grindewald. "Bear" Hotel, 1892.  
 W. 19. St. Olave's Church, etc., Tooley Street (London), 1843.  
 Th. 20. Abergelle. Railway collision, 33 burnt, 1868.  
 F. 21. South Shields. Jarrow Colliery, 39 lives, 1845.  
 S. 22. New York. 60 lives lost, 1891.  
 Sun. 23. "Eastern City," Liverpool Ship. Destroyed at Sea, 1858.  
 M. 24. "Ocean Monarch," off Liverpool. 200 lives, 1848.  
 T. 25. China. Chung-King, 30 lives, 2,000 buildings, 1894.  
 W. 26. Birmingham. Digbeth, 4 lives, 1878.  
 Th. 27. Asia Minor. Ouchak, 18 lives, 3,000 houses, 1894.  
 F. 28. San Francisco. Water lacking. £100,000, 1876.  
 S. 29. Hawera, New Zealand. Several buildings, 1895.  
 Sun. 30. London Bridge Wharves, £250,000 damage, 1836.  
 M. 31. Dunedin (N.Z.). Great Fire, 1874.

## SEPTEMBER.

- T. 1. Astley's Amphitheatre and 40 houses (London), 1803.  
 W. 2. GREAT FIRE OF LONDON, 1666.  
 Th. 3. Northampton partly destroyed, 1675.  
 F. 4. Durban (South Africa). Great Fire, 1884.  
 S. 5. Exeter. Theatre Royal, 160 lives, 1887.  
 Sun. 6. Benton Harbour (U.S.A.). Opera House, 11 Firemen killed, 1896.  
 M. 7. Cabul (Afghanistan). 150 buildings, 1897.  
 T. 8. Burwell, next Newmarket (England). 76 lives, 1727.  
 W. 9. S.S. "Great Eastern." Explosion on trial trip, 1859.  
 Th. 10. Millwall (London). £100,000 damage, 1853.  
 F. 11. Paris. Rue de Bondy. Great Fire, 1876.  
 S. 12. Burroughs & Wellcome, Wandsworth (London), 1 life, 1889.  
 Sun. 13. Melbourne (Australia). 3 Firemen killed, £200,000, 1889.  
 M. 14. Liverpool Great Fire. Over £1,000,000, 1802.  
 T. 15. BURNING OF MOSCOW, £30,000,000 damage, 1812.  
 W. 16. Currie's Distillery (London), £200,000, 1879.  
 Th. 17. Paternoster Row (London). "Dr. Johnson's Club," 1859.  
 F. 18. Dundee. Superintendent and Firemen killed, 1870.  
 S. 19. Mark Lane (London). Burning days, £200,000 damage, 1850.  
 Sun. 20. Covent Garden Theatre destroyed, 1808.  
 M. 21. Leeds Central Market burnt, 1893.  
 T. 22. Sydney (Australia). Exhibition buildings, 1882.  
 W. 23. Newcastle-on-Tyne. 4 Firemen killed, 1890.  
 Th. 24. Ballarat (Australia). Great Fire, 1859.  
 F. 25. Liverpool. Immense Fire, £500,000 damage, 1842.  
 S. 26. Blenheim (New Zealand). Big Fire, 1894.  
 Sun. 27. Birmingham. Explosion, etc., 21 lives, 1859.  
 M. 28. Manila. Great conflagration, 1897.  
 T. 29. Grand Theatre, Islington (London), 1 life, 1887.  
 W. 30. Aberdeen Music Hall, 7 lives, 1896.

## OCTOBER.

Th.	1.	Hankow (China). 10,000 houses, 2,000 lives, 1898.
F.	2.	Sydney (Australia). Great Fire, over £500,000 damage, 1890.
Æ.	3.	Copenhagen. Royal Castle destroyed, 1884.
Sun.	4.	Halifax (England). Lee Mill burnt, 1853.
M.	5.	Gateshead. Explosion, etc., 50 lives, £1,000,000, 1854.
T.	6.	Guayaquil (Ecuador). Great conflagration, 1896.
W.	7.	Gray's Inn Road (London). Fireman killed, 1871.
Th.	8.	GREAT FIRE OF CHICAGO. £50,000,000, 250 lives, 1871.
F.	9.	Coolgardie (W. Australia). £100,000 damage, 1895.
S.	10.	Nottingham Castle destroyed, 1831.
Sun.	11.	Liverpool Colosseum. Panic, 37 deaths, 1878.
M.	12.	Staffordshire (England). Ingestre Hall, 1882.
T.	13.	Cloth Fair (London). 8 lives, 1890.
W.	14.	Glasgow. Buchanan Street, £155,000, 1888.
Th.	15.	Belgium. Hainault Mills, £400,000, 1898.
F.	16.	Houses of Parliament (London) destroyed, 1834.
S.	17.	Nova Scotia. Burning of Windsor, 1897.
Sun.	18.	New York. 4 Firemen killed. £750,000, 1893.
M.	19.	Moscow. Big Fire, £190,000, 1834.
T.	20.	Burnley (England). Fireman killed, £40,000, 1897.
W.	21.	Derby (England). Town Hall and Records destroyed, 1841.
Th.	22.	Melbourne (Australia). Haymarket Theatre, 1872.
F.	23.	Constantinople. 900 persons killed, 1850.
S.	24.	Thames Street, London. Warehouses, 1871.
Sun.	25.	Portman Church, Baker Street (London), 1896.
M.	26.	Liverpool. Warehouses, £130,000, 1895.
T.	27.	Fremantle (W. Australia). Big Fire, 1895.
W.	28.	Margate. Assembly Rooms destroyed, 1882.
Th.	29.	Leicester. Large Shoe Factory, £20,000, 1889.
F.	30.	Tooley Street (London). Beal's Wharf, £200,000, 1865.
S.	31.	Tower of London. £200,000 damage done, 1841.

## The Conflagrations of the Centuries.

A.D.	64.	The Burning of Rome by Nero. Six days.
	154.	Antioch, in Syria, consumed.
	260.	Bordeaux destroyed. Rebuilt by the Romans.
	393.	Constantinople burning for three days.
	465.	Constantinople. Over six days and nights.
	558.	Paris burned.
	640.	Alexandria destroyed.
	798.	London partly destroyed.
	802.	Constantinople. Homer's Works burned.
	982.	London. Greater part of City.
	1086.	London. From East to West Gate destroyed.
	1130.	Rochester (Kent) burned.
	1212.	London Bridge. 3,000 lives lost.
	1349.	Newcastle-upon-Tyne burned.
	1463.	York Minster destroyed. "The statliest of fabricks."
	1544.	Edinburgh and Leith demolished.
	1666.	The Great Fire of London.
	1782.	Constantinople. All the fine palaces and mosques.
	1871.	Chicago destroyed. £50,000,000 damage.



# Memorable Fires of all Time.

FROM 1897 BEFORE CHRIST DOWN TO THE PRESENT DAY.

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*"The Lord rained upon Sodom and upon Gomorrah brimstone and fire from the lord out of heaven; and he overthrew those cities, and all the plain, and all the inhabitants of the cities, and that which grew upon the ground." . . . "and, lo, the smoke of the country went up as the smoke of a furnace."*—  
GEN. XIX.

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The destruction by Fire of the two Great Cities of the Plain, thus referred to, one thousand eight hundred and ninety-seven years before the Coming of Christ, is the first distinct record in history of a wholesale conflagration. It is said that even to this day, 3,799 years since the holocaust, the land upon which these cities stood, and that round about it, has remained sterile and unproductive.

In the years that followed, down to the First Year of Our Lord (A.D. 1) there are many records of the burnings, more or less, of Ancient Cities. The Israelites gave Jerusalem to the flames in 1400 B.C., and the victorious Chaldean Army similarly consigned there to destruction Solomon's Temple 814 years later. Ephesus (Asia Minor), Athens, Antioch (Syria), Corinth (Greece), Alexandria, and Rome alike suffered from the same dread visitant in varying degrees as the centuries rolled by. Rome was particularly ill-fated even long before the huge bonfire which has ever been, rightly or wrongly, accredited to the Emperor Nero. In 390 B.C. it was burnt by the Gauls; a century and a half later an accidental fire lost the Romans more wealth in one day than they had got by many victories; in 215 and 212 B.C. there were more "Great Fires" there; in 81 B.C. the Capitol was

destroyed; and 31 years afterwards another big sweep by the flames. It was in the year 12 B.C. that a dreadful Fire in the City of the Seven Hills led to the introduction of professional Fire-fighters. Augustus, to check the damage and disorder of Fires, "created new officers, who were permitted on certain days to wear the robe peculiar to magistrates, to have two lictors to attend them, *and 600 slaves for the extinguishing of Fire.*"

In A.D. 64 Rome burned from July 19-24, and out of the 14 regions or wards of the City 3 only escaped damage or destruction. This is the particular incendiary incident debited to Nero, when he is reported to have played the violin as an accompaniment to the roar and crackle of the devastating flames. Anyhow, he re-built the city with great splendour afterwards. In this historical burning all the noble monuments of antiquity, the stately palaces, temples, porticoes, with goods, riches, and merchandise to an immense value were sacrificed. In 70 the Romans under Titus burned Jerusalem and slew 1,100,000 of the inhabitants by fire and sword. Rome, Antioch, Carthage, and Alexandria in the following centuries all sought notoriety with large-sized conflagrations, though it must be admitted the first-mentioned led easily until Constantinople took a hand and monopolised all attention as a bad insurance risk from A.D. 393 to 532. In 558 "Paris Burned" says the record tersely; and in 610 the first big fire in the United Kingdom is noted thus, "St. David's (Wales) Burned." Rochester, Durham, York Minster and Canterbury all followed suit, until in 798 London entered the competition, leaving "no details"—it is presumed they were burned also.

Ignoring certain acts of incendiarism on the part of the Danes, who turned Peterborough, Wilton, Norwich, Northampton, Brechin, Cork, and York into ash-heaps, brings us to 1086 and the burning of London from the "East to the West Gate" in the reign of William the Conqueror. It began at Aldgate and destroyed all the houses and churches to Ludgate, "together with the stately Fabrick of St. Paul's and the strong Castle called the Palatine Tower, which stood in the West part of the City, towards the little River of Fleet."

With the growth of population and the increase of available historical records fires became so numerous now that it is impossible here to even notice the majority of them; so merely mentioning that London appeared to only get re-built in order to provide another bonfire for its citizens, we will hasten along to the year 1212, when London Bridge, in burning itself down, doomed 3,000 persons. It happened in this wise: An awful Fire was burning on the Southwark side of the Bridge, on which thousands of spectators assembled to witness the spectacle. Meanwhile the City end of the Bridge took flame, and hemmed between two conflagrations, the victims threw themselves into adjacent boats and barges. These, overwhelmed, sank, and 3,000 lives were lost in the Thames.

With a reference to the burning of Morpeth (Northumberland) by its inhabitants "out of hatred to King John," a hasty step forward lands us in London in 1561, when the spire of St. Paul's, "being 520 Foot from the ground," was struck by lightning and burnt down. The next important event records a holocaust of human life in 1631 at Madgeburg in Germany. Fire completely destroyed the city and 20,000 persons were "killed, burned, or smothered." Of these 6,000 alone were drowned in the Elbe. Two years later at a big Fire on London Bridge Fire-engines were first used in England. What these Fire-engines were like a tour through the Loan Collection of Earl's Court Exhibition will give a very good idea. A Fire in the Strand "near Arundel House" in 1637 once more put the Fire-Engines into such good use that King Charles I. wrote a congratulatory letter to the Lord Mayor concerning them.

The Great Fire of Marlborough (Wilts) is a bit beyond the memory of the oldest inhabitant, for it occurred in 1653, destroying 224 houses, one church, and the market-house, and causing a loss of £80,000—money was much more valuable then. Of this calamity history relates that the man on whose premises the Fire commenced had "been recently guilty of the extravagant pretension of assuming the name of the Messiah." Six individuals lost their lives, and as four Dutchmen were among the victims it



would appear that the Alien Invasion was with us some centuries back.

With Constantinople keeping up its bad habit of "getting on fire" at regular intervals, it was not surprising that the contagion should spread to the Far East, and in 1656 Jedo (Japan)—as it was then spelt—was totally consumed in two days. Over 100,000 houses and a "vast number of stately palaces, and Pagods, or Pagan Temples" fed the flames. Here we rest before **THE GREAT FIRE OF LONDON** of 1666.

Previous to this colossal catastrophe there had been several attempts to introduce Fire Insurance into Great Britain, but without success. It followed, however, practically upon this conflagration, so out of evil may be said to have come some good. It will be difficult to reconstruct in the mind's eye the London of two and a half centuries back, so a visit to the representation of it in flames in Elysia, near the Great Wheel, may be recommended as an assistance. The thoroughfares of the Old City were narrow and tortuous, the houses were mostly wood and plaster, and many of them had thatched roofs. A season of severe heat and drought had dried the buildings to tinder; the Fire originated in a locality stocked with inflammable materials; and a brisk breeze flung the flames across the narrow streets. The terrible horrors of that four days of London's burning can only be realised by a perusal of the accounts left by Pepys—then Secretary of the Admiralty—and Evelyn. Four-fifths of the City were hopelessly destroyed, with the Cathedral and all the principal buildings, the riverside was denuded of houses, and the panic-stricken citizens were in momentary dread of a foreign invasion while they lay helpless in their terrible misfortune.

Other disasters by the same means were yet to happen before the Seventeenth Century came to a close. Archangel (Russia) was partially destroyed in 1667, and in 1675 £250,000 damage was caused at Northampton. Next year, at the burning of 500 or 600 houses in Southwark (Lon.) Fire-engines with hose-pipes were first used, and the King (Charles II.) from his barge on the Thames, directed the Firemen's efforts. Glasgow and Edinburgh had their turns in 1677 and the Temple (London) contributed a big blaze shortly afterwards.

At Wapping in 1682 nearly 1,000 houses were burned or blown up—a favourite mode in those days of checking a fire spreading—and many lives lost. A Fire at St. Thomas's Hospital in 1696, which threatened to assume large dimensions, was checked by the Fire-engines, but two years before the century's close the Old Palace in Whitehall was completely destroyed, after burning seventeen hours. About 12 lives were lost, and nearly 150 houses burnt, "the lodgings and habitations of the chief of the nobility."

In 1712 interest is taken across the Atlantic, for the Indians made an attempt to burn the city of New York. A year previously Boston had had a blaze of 100 houses, with a promise to do better later—as it did. At the burning of White's Chocolate House, near St. James' Palace (London) in 1731 the King and Prince of Wales were present and encouraged the Firemen. Afterwards the Royalties liberally rewarded them and also those who pumped at the engines! The next conflagration of note was the destruction of 200 houses in Cornhill, which gave a nasty knock to the early Insurance offices, and caused Dr. Johnson to write, "The conflagration of a city, with all its turmoil and concomitant distress, is one of the most dreadful spectacles which this world can afford to human eyes." A peculiar incident worth recording in connection with the burning of the Poultry (London) in 1749 is that the prisoners for debt in the *Counter* were released because of the Fire, and out of 50 no less than 40 returned to be again locked up! This is worthy of Max Adeler.

Fires are now becoming more frequent as the eighteenth century goes on, and Boston, Moscow, and Constantinople are strong competitors with London for pride of place. Königsberg (Prussia) and Bridgetoun (Barbadoes) were both scorched out of existence in 1764 and 1766 respectively; but nothing really of unusual interest is encountered until we find that at Chatham in 1774, water being scarce for fire-extinguishing, a brewer supplied small beer to the engines with most successful results. At the destruction of the hospital at Brest (France) in 1776, fifty galley slaves lost their lives, while many others wisely escaped from custody. To prevent this the remainder were ordered to

lie on their faces, and anyone who raised his head was shot. Madrid's Great Fire began on August 12th, 1790, and lasted three days, prayers and religious processions having no appreciable effect on the flames. It is a powerful argument for Home Rulers, as evidencing the interest that the Irish Parliament had in their responsibilities that in 1792, on the Parliament House catching fire in Dublin, and the roof in danger of falling in, the House did not adjourn until a proper motion had been put and carried in the affirmative. Doubtless a falling roof would have been an effective Closure on the most obstinate of stonewallers, who would probably have been deprived of the pleasure even of boasting that he had "brought down the House."

Liverpool Town Hall and Exchange were burned in January, 1795, and in April the man-of-war *Boyne*, 98 guns, was destroyed off Spithead. The same year Copenhagen, Edinburgh, and Plymouth had costly bonfires, while Constantinople, the combustible city, was also well to the fore. The new century was ushered in by the loss of £300,000 worth in Lower Thames Street, London; serious injury to Vauxhall Gardens (Lambeth); several firemen burned at a big fire in Aldgate; and the destruction of Radnor Forest, in Wales.

In November, 1805, a terrible conflagration visited the West Indies, and practically destroyed St. Thomas; 900 warehouses and stores were swept away, and £600,000 damage done in a few hours. A self-extinguishing fire, which occurred two years later in Chiswell Street, London, is worthy of being placed on record if only as an encouragement to other conflagrations to do likewise. Whitbread's Brewery was the locality of the break-out, and after the flames had obtained reasonable proportions their greedy voracity caused their almost immediate extinction, for the fire destroyed the supports of a huge vat holding 2,071 barrel-measures of beer, and was at once ignominiously put out for its intemperateness. The signal success of this new manner of extinguishing fires was in July, 1820, followed up by the Paris Fire Brigade, who attempted even to improve upon the English precedent. A large wine depôt in the Bourg Bercy was assailed by the Terror of Peace, and as water was scarce, a lake of wine,



fifty feet square and one foot deep, was dammed up and pumped through the hoses on the fire. The results were, as might be expected, signally disastrous, and the spirit-fed flames did £560,000 worth of injury.

“The greatest example in history of national self-sacrifice for the destruction of an invader,” is considered to be the Burning of Moscow by the Russians in 1812. Napoleon’s all-conquering army had entered the historic City intending to make it their winter quarters. The inhabitants—who had fled at their approach—led by the Governor, fired the City in all parts and at all times, and finally rendered it so untenable that Napoleon was compelled to begin his famous Retreat in the depth of winter. It is affirmed that 20,000 sick and wounded perished in the flames of 15,000 houses. The direct loss to the French is put down at 40,000 men, and almost the rout and annihilation of the Grande Armée.

When Mehamet Ali’s Palace, with the adjoining magazines and stores were consumed at Cairo in March, 1834, explosions caused the deaths of 4,000 persons.

The historical burning of the Houses of Parliament began at half-past six on October 16th, 1834, and was attributed to carelessness and negligence. It destroyed both the Houses of Lords and of Commons, the Royal Gallery, the House of the Speaker, St. Stephen’s Chapel, and the Painted Chamber, though Westminster Hall escaped practically uninjured. Fortunately for the Government of the day the House was not sitting at the time. Next our Trans-Atlantic cousins, not to be outdone, brought off their best effort up to date in the Great Fire of New York. This pyrotechnic display cost three to four million pounds, and involved 674 warehouses and residences, including the Merchants’ Exchange. A gale of wind was blowing at the time, and the intense cold froze the water and hoses, and rendered the engines useless. One good result was the great improvement in architecture displayed in the rebuilding of the City. In the February of the following year, St. Petersburg Theatre (Russia) provided a human holocaust, in which 800 lives were lost.

The Royal Exchange, London, fell to fire on the 10th of January, 1838. It was discovered at 10 p.m., and it is worthy of note that "within an hour of the outbreak 63 firemen and engines were on the spot." Before water could be thrown it was necessary to thaw the hose and the works of the engines owing to the intense frost. At midnight, from out the volume of flames and smoke the chimes struck up their usual—and in this case singularly appropriate—tune, "There's nae luck about the House," and continued this consoling melody for five minutes. Then the bells, thoroughly convinced of the truth they had chimed, fell clattering with the statues of the Kings and Queens of England to the basements. The floors had fallen one after the other, and little was left to burn when the "stop" was recorded at 3.30 a.m. The building had cost £58,962.

One of the greatest fires of modern times, which left 21,526 persons homeless, and cost £7,000,000, was the practical destruction of Hamburg from May 4th to 7th, 1842. The city was plunged into a state of anarchy, 100 lives being lost, and 4,219 buildings demolished, over an area of 30 acres. Loss of life in Far Cathay, where it is so prolific, does not come home to the white man over-convincingly, but it may, nevertheless, be mentioned that 1,670 lives were lost in the burning of the Canton Theatre, May, 1845. On the contrary, the 200 persons killed in the destruction of the Theatre Royal, Quebec, on June 12th, 1846, were kin across the Seas, and many, doubtless, with ties of blood to British-born brethren.

At this period it cannot be overlooked that the "Unspeakable Turk" did his best to direct the World's attention to his Capital on the Bosphorus with a bonfire of forty splendid palaces, mosques, etc., while a compact mass of shipping were consumed at anchorage, August 16th, 1848. A calamity which came far more cruelly home to us happened in the April of the same year off Liverpool's sea-girt threshold, when the ship *Ocean Monarch* was burnt, with 200 of its passengers and crew. Gateshead (Durham) next provided a shock to the whole Kingdom at a cost of £1,000,000. In October, 1854, a large bonded warehouse stocked with chemicals took fire, and the explosions killed

fifty persons. The shipping spread the flames over the Tyne with disastrous results.

The third quarter of the last Century was pregnant with disasters both at home and abroad. Of those which must be referred to in this skimming of the Conflagrations of Centuries, TOOLEY STREET comes first. This memorable and tragic fire began on the 22nd of June, 1861, is said to have not been thoroughly extinguished for a month, and stands as the second most destructive fire in London. The chief of the London Fire Engine Establishment, Superintendent Braidwood, lost his life while directing his subordinates. An explosion in a building caused a portion of a large wall to topple outwards, and the unfortunate Braidwood was buried beneath it. The helmet he was wearing, and other relics of this brave and capable officer, may be seen in the Loan Collection of the present Exhibition. For two days the fire burnt furiously. The lighted tallow flowed into the sewers, and threatened to imperil the shipping on the Thames. Cotton's Wharf, Hay's Wharf, Chamberlain's Wharf, were destroyed, and the damage done was estimated at two million pounds.

In the last month of 1863 the burning of a Jesuit church at Santiago, Chili, caused a dreadful loss of human life. It was the *Feast of the Immaculate Conception*, and the Church of the Campania—gorgeously decorated and draped, while a myriad wax candles lit up the religious festival—was thronged with thousands, mostly women and children. Unprotected lights, loose inflammable materials and narrow exits invited the holocaust that occurred, and 2,000 corpses representing what had been the youth, beauty and fashion of the City were borne away from the ruins in 161 waggon-loads.

Turning from the South American horror, a more pleasing fire-incident at home will be found of exceptional interest. This is no less than His Majesty King Edward's début as a fire-fighter. It occurred on July 4th, 1865, when Marlborough House was in his occupancy, as Prince of Wales. A fire that threatened to be serious broke out, but was extinguished mainly owing to his exertions. As an amateur fireman King Edward



placed too much reliance on mere lath and plaster, and fell partly through a ceiling. Nevertheless, he kept his spirit dry, and went on damping the fire, with the success recorded.

The greater part of Pera, a suburb of Constantinople, was injured to the extent of £5,000,000 in June, 1870. The British Embassy, the American and Portuguese Consulates, with numerous churches and mosques, and 7,000 houses, were destroyed. Sir Henry Elliot, Britain's representative at the Court of the Sultan, and his staff, assisted by some sailors, fought the flames strenuously, but without success, though they succeeded in saving the archives and public documents. It would be interesting to learn the fire insurance premiums in Constantinople.

"The Greatest Fire of Modern Times," the Burning of Chicago, began in a barn on October 8th, 1871, and raged until the 10th, over an area of 2,124 acres, including  $3\frac{1}{3}$  square miles of the city's heart. Two hundred and fifty lives were lost, 98,500 persons rendered homeless, and 17,430 buildings destroyed, equalling half the value of the buildings of Chicago. The damage was estimated at £39,000,000, and extended over 73 miles frontage of streets. Thousands of the inhabitants fled into Lake Michigan and stood up to their necks in the water for hours to escape the dreadful heat. Thieves took advantage of the general disorder that prevailed, and the streets were placed in charge of armed guards, who shot several of the looters on sight. The great American City rose Phoenix-like from its ashes, to be what it is to-day, one of the leading commercial centres of the world. In this same ill-fated year the incendiary acts of the Communists in Paris did damage roughly computed at £32,000,000. Calamity followed calamity, and in 1872, at Tientsin (China), 600 lives were lost in a fire, and on the 9th of November, the Great Fire of Boston—the third largest in modern history—occurred. This outbreak cost £15,000,000, and covered an extent of 60 acres. The Fire Brigade horses were suffering from an epidemic peculiar to equines at the time, and hampered the arrival of the engines, while the narrow streets, lofty buildings with Mansard roofs, contributed to the spread of the flames.

London had its next serious visitation from the fire-fiend on February 12th, 1874, when the Pimlico Pantechnicon, Belgrave Square, covering two acres of ground, was destroyed, with its valuable contents. £1,850,000 was the amount lost on this occasion. The vast building was crammed with valuable furniture and works of art, and personal effects of aristocratic clients. The splendid armour and enamels of the late Marquis of Hertford, and all Lord (then Sir Garnet) Wolseley's accumulation of valued souvenirs from the Crimea, India, China and Canadian campaigns perished. The General was then on his Ashanti Expedition. Other serious losses were Sir Seymour Fitzgerald's fine collection of old china, and Lord Monteagle's collection of pictures, including seventy chefs d'œuvre, and a superb marble statue of the Venus de Medici. During the progress of the fire H.R.H. the Duke of Cambridge had a narrow escape of his life through the sudden falling of a wall. The burning of the *Cospatrick* at sea, while outward bound for New Zealand, in the November following resulted in 470 of the passengers and crew losing their lives.

Two years later a theatre holocaust occurred at Quebec, 200 deaths being caused by the destruction of the Theatre Royal. A month later, at the burning of the Conway Theatre, of Brooklyn (U.S.A.), 283 people met a terrible death. St. John (New Brunswick) paid tribute to the fire-shrine to the extent of £3,000,000, in June, 1877, and Irkutsk (Siberia) likewise £4,500,000 in July, 1879. Entering into the '80's, the reference to the memorable fires must necessarily grow less diffuse, because the majority of them are still fresh comparatively in the minds of most people. The ball opens with the disaster at the Municipal Theatre of Nice, on March 23rd, 1881, when 150 lives was the death tally. A formidable conflagration at Kingston (Jamaica) hit the rum and sugar island to the tune of £6,000,000.

1883 was a year of human holocausts. The New Hall House, Milwaukee, N.S.A., took 109 lives up in its smoke on the 10th of January; three days previously the Buffs Theatre, Moscow, had similarly claimed 300 souls; and the last month of the year witnessed the shocking horror of the Ring Theatre, Vienna, when

the grim total of lives lost rose to 447. In the last case the Director of the Theatre was found guilty of negligence of the fire prevention regulations, and deservedly imprisoned. In July, 1886, another theatre fire at Tinnevely (India) accounted for 113 persons, and in a great fire at Madras, in December, panic caused a loss of 405 lives. Still the gruesome record kept growing, and 1887 materially added to it. The destruction of the Opera Comique, Paris, caused 131 deaths, and an enquiry resulted in the Director being held culpable, fined £2,000, and imprisoned. On September 5th the trouble was at our own doors, the burning of the Exeter Theatre being responsible for 188 lives. In the March following, 170 persons were killed in a panic at a theatre in Oporto. In June, 1889, China attracted some attention by destroying 1,200 out of its millions of population at a theatre fire in Luchow. A big petroleum fire, with the explosions inseparable from such outbreaks, killed 150 people at Antwerp in September, and ushered us into the 90's.

Japan suffered in December, 1892, 275 houses being burned down at Osaka, with 125 fatalities. In the preceding May, 319 miners were killed by the Birkenberg Silver Mine, in Bohemia, taking fire. Peru came into the "Fatal Fires" list on a large scale by a catastrophe that happened at Santander on November 3rd, 1893, a fire and an explosion therefrom killing 500. In the next month the burning of a temple at Ningpo (China) cremated 300 devotees. Towards the end of '96 Guayaquil (Ecuador) saw £4,320,000 worth of the town represented by blackened walls and smoking ashes only.

Quite a memorable year for three of the World's great capitals was 1897, for Chicago, Paris and London were each cruelly smitten. The thrill that ran round the civilised world at the awful tragedy of the Charity Bazaar holocaust in the Rue Jean Goujon, Paris, is still keen in our memories. That the burning of a temporary building—its total cost of construction was only £480—should have been responsible for the lives of 124 ladies and gentlemen, the very élite of France, was a severe lesson to the Fire Prevention authorities of all nations. "Old Paris," a grand charity bazaar, was being held by the leaders of the Paris



aristocracy. The building was oblong in shape, and had seven doors, four of which opened inwards. An ether cinematograph lamp exploded, the decorative hanging and draperies lit like tinder, and fell as deadly shrouds on the frail and fashionable robes of the ladies. The scene was terrible beyond all powers of description. The ceiling was covered with tarred felt, which shed molten pitch on the terror-stricken victims. Among the 124 fatalities were the Duchesse d'Alençon, sister of the ill-fated Empress of Austria, General Munier, and scores of noble and eminent persons. Some escaped from the building to a spare bit of land, only to be slowly roasted alive by the heat of the adjacent building. The only exit from there was a small window into an hotel, of which a lucky few availed themselves.

The Great Fire of Cripplegate happened in November of the same year, and was debited with £1,000,000 to £1,250,000 damage. Insurance in this was represented by £560,000. At this conflagration was engaged the largest force of firemen ever at one fire. It burned for 7 or 8 hours, took 15,000,000 gallons of water to extinguish it, and was attended by 51 steam fire-engines and 294 men. The area which it swept is regarded as one of the most perilous fire-risks in London. The disastrous year of '97 was closed by the destruction of the Chicago Collisseum in December, when 49 persons were killed or injured.

Of course China, in one swoop, easily exceeded these combined disasters, and in October, 1898, Hankow had 10,000 houses burnt up, with 2,000 human victims. Among the conflagrations of the past few years there are two which stand out significantly in the minds of Londoners, *i.e.*, the Queen Victoria Street calamity of May last year, and the more recent holocaust of lunatics at Colney Hatch Asylum. The first occurring in broad daylight, on a summer's day, resulted in the deaths of 6 workgirls, and the latter at night aggregated 51 lives, all female patients.

In closing this cursory review of "Memorable Fires," it may be mentioned that those recorded are but a tithe of the whole. If, however, this article have the effect of bringing home to readers the serious tax on life and money annually laid by fire, it

will thus help to a better appreciation of the importance of the present International Fire Exhibition, and the grave necessity there is for the World's experts banding together in an organised and universal code of regulations to check the waste of men and money caused by fire. It has been officially estimated that £12,000,000 annually is consumed by conflagrations throughout the United Kingdom, and this total is increasing yearly at the rate of £500,000. It must be remembered also that it is not the large fires that preponderate in these totals, but the minor and moderate ones.



EMPRESS THEATRE.

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‘FIGHTING THE FLAMES’

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THE GRAND  
Dramatic and Sensational Scena  
OF  
EARL’S COURT, 1903.



# Empress Theatre.

Licensee

HERMAN HART.

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The Realistic and Thrilling Sensation

## "FIGHTING THE FLAMES."

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### THE FIRE BRIGADE DISPLAY AND DRILL

Organised and Superintended by Chief Officer R. G. Graham, N.F.B.U.

Stage Production . By JOHN DOUGLASS.

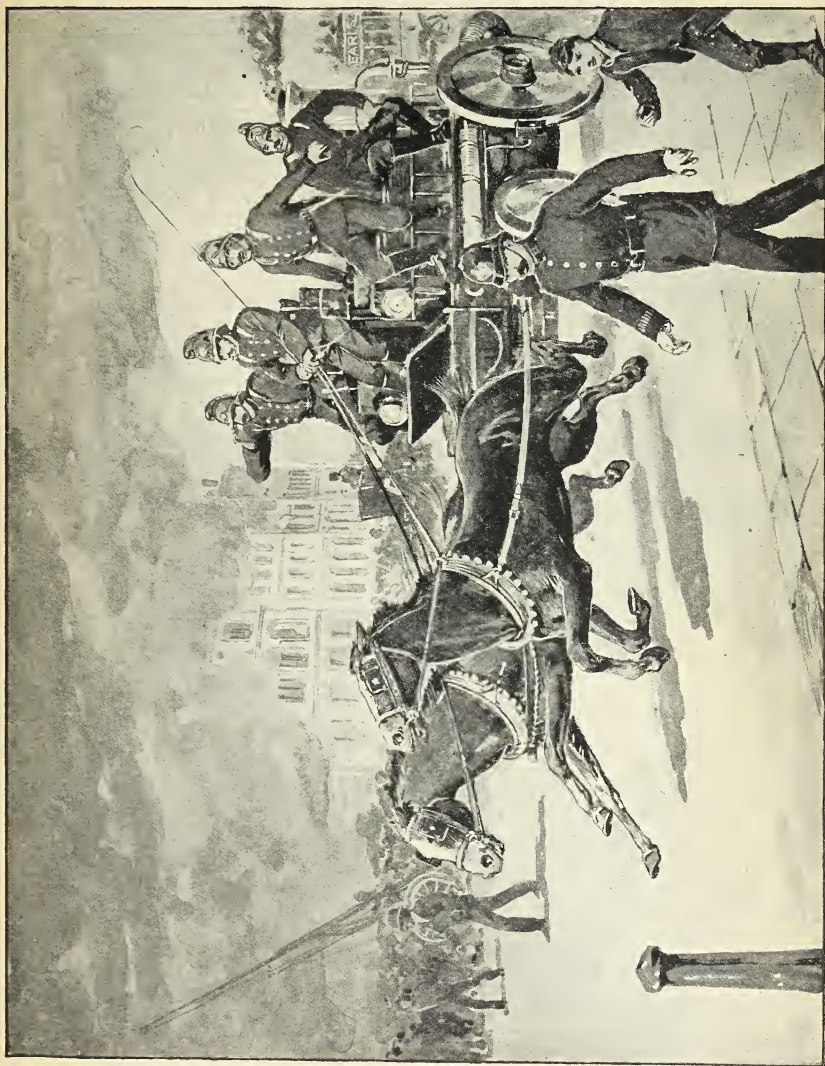
Stage Mechanism and Accessories

By W. H. BOND and Assistants.

The Elaborate Set Scene . By RYAN.

Musical Conductor Sig. ANGELO VENANZI.

Costumes . . . . . By HARRISONS, LTD.







## SYNOPSIS.

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The shadows of eve are approaching.—A busy thoroughfare is shown.—The Police Patrol are being stationed for the night.—A poor woman and child, waifs and outcasts, lie on a doorstep.—A passing bicyclist gives the poor wretch a few coppers, and sees the Police arrest her for begging.—The Unemployed Procession appear likewise begging, but protected by police—the same act (in a homeless wanderer) a crime.

Open night in the Town. The Hooligan Pest. Respectable people attacked by Hooligans.—The Fighting Parson comes to help.—How *not* to catch marauders.—The antics of Mirthful Mary.—The humours of a Police arrest.—The Rush of Street Traffic.

The streets are almost deserted. The long line of lamps seem spectral in their loneliness. The cabs containing laughing merry souls are going homeward, when from a house, used partly as a factory, a small column of smoke is seen issuing. A young urchin bent on mischief sees the sinister signal, and immediately gives the alarm—"Fire! Fire! Fire!" and it is heard echoed in the distance.

On the two lower floors of the house the shadows of frantic women are seen on the blinds, vainly trying to extinguish a fire, originating in the workroom. Then, despair seizes them, and they rush to the windows, screaming for help; but no help is near. The smoke from below is suffocating, and evidently the staircase is on fire, and the terror-stricken inmates dash through the smoke and force open the street door.

Meanwhile a crowd have assembled and burst in the shutters. Two occupants are seen at the lower windows shrieking. A cart coming down the street is requisitioned and dragged on to the pavement, and those on the lower floor saved, but the fire has gained ground, and the upper floors are involved. From many of the rooms on the third and fourth floors, the inmates, cut off from the staircases, are seen frantically shrieking. A Police Sergeant smashes the Fire Alarm and telephones for Police.

The crowd increase. The Hand Escape arrives, and the Police now assist with a Jumping Sheet, and call upon the men and women to jump. Then the Horse Escape arrives, and promptly gets to work, making rescues from several windows. A woman and child appear on the roof. One Escape rescues them—others are saved by the Firemen by ropes.

The Engines rush in and promptly run out their hose and commence throwing copious streams of water on the fiercely burning building. The whole structure is now one huge blazing mass, and Engine after Engine come on. The Firemen bravely are fighting the flames, when a piercing shriek is heard, and a woman (newly aroused from sleep) is seen on the fourth floor in her light garb, surrounded by the raging furnace.

In vain the Escapes try to reach her.—It seems she must be sacrificed, but a third attempt is successful, and as she is brought down the ladder the pent-up feelings of the crowd give way in hearty cheers, as the roof collapses and the

**FIRE-FIEND IS CONQUERED!!**







## DESCRIPTION.

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The silence of the night is suddenly broken by the shrill cry of "Fire," as smoke is seen coming from the fanlight over the doorway of the house at the junction of two streets.

At the same time the shadows on the blinds of the first floor indicate serious trouble to the inmates. They are apparently endeavouring to stifle an outbreak of fire.

Finding their efforts ineffectual, the terrified occupants rush to the staircase; some fight their way through the dense volumes of smoke.

Others, less fortunate, again ascend the staircase, and, throwing open the windows of the first floor, cry for "Help" to the fast-gathering crowd of loungers, for whom a fire is usually so attractive.

The first arrivals are augmented by the rush out of the building of those who have been lucky enough to reach the door.

As the fire grows in intensity, and the first floor is entirely involved, the frantic men and women, in presence of the advancing flames, retreat to the second and third floors, where they are seen frantically calling attention to their serious position.

At this moment a police sergeant arrives on the scene and breaks the glass of the fire alarm. A small posse of police follow him, and working under their direction, some of the crowd rescue the men left on the first floor.

By the time the first escape arrives, it is quite clear that the entire building will become a prey to the raging element, and the terrific danger facing those still within the walls of the doomed building is palpable.

With the escape comes a hose cart, containing the usual jumping-sheet. The sergeant calls for volunteers from the crowd, and they range themselves on the broad pavement around

the sheet, and call lustily to those on the second floor to "jump" as the only means of saving their lives.

One or two refuse, and, looking from the giddy height to the frail sheet extended for their reception, seem to prefer certain suffocation to the risk of missing the friendly support below, and being dashed to pieces on the pavement.

Two jump, the crowd cheering heartily as in quick succession, they are safely landed on the ground.

Those on the higher floors are entreated by the mob to "Try, try—Jump!" but are fearful of the risk. Meanwhile the horse escapes have got to work, and the people are rescued from their parlous situation.

Those who have fled to the roof, through which the flames have by this time penetrated, are saved by the long ladders.

The steamers, arriving one after the other, get to work with lightning rapidity, pouring a dozen jets of water on the burning mass.

All danger of loss of life appears at an end, when suddenly an appalling shriek is heard from one of the upper rooms, and a woman in her light garb, evidently awakened suddenly out of her sleep, appears, enveloped in the smoke and flames.

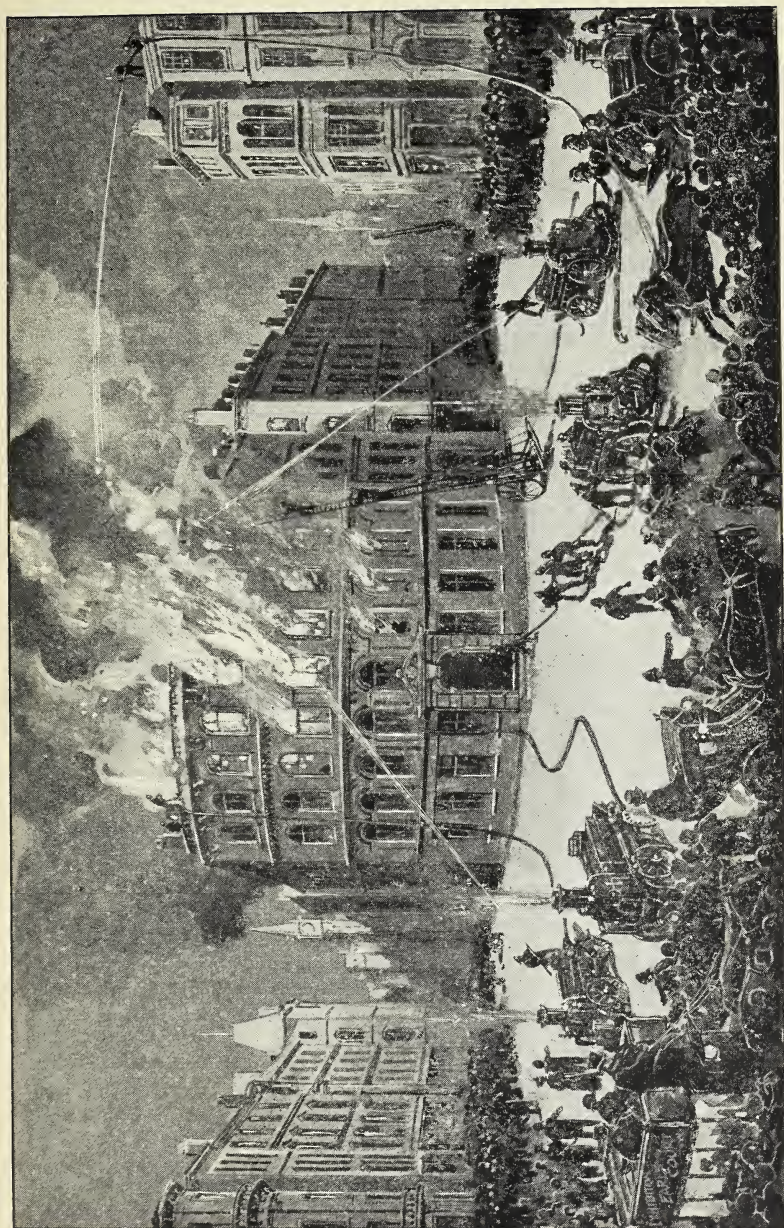
Rushing frantically from window to window, her cries of despair thrill the crowded street with horror at the awful fate which appears to threaten her.

In vain the escapes are placed against the windows. In vain the gallant band of devoted firemen, braving death, are driven back, baffled, but not beaten.

More steamers join in the fight for victory, and succeed temporarily in keeping down the furnace. Again and again the attempts at rescue are renewed, until at last success rewards the efforts of one hero, and simultaneously a tremendous thunder-storm bursts over the devoted house.

The crowd cheer the firemen enthusiastically. The roof falls in with a crash, carrying with it the floors, and the CURTAIN DESCENDS on the triumph of the Firemen in "Fighting the Flames."





LAST SCENE : " FIGHTING THE FLAMES . "



# EMPRESS THEATRE.

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## **Grand Procession of Firemen of all Epochs.**

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FROM ROME 15 B.C. TO 1903 A.D.



## Grand Procession of Firemen of all Epochs.

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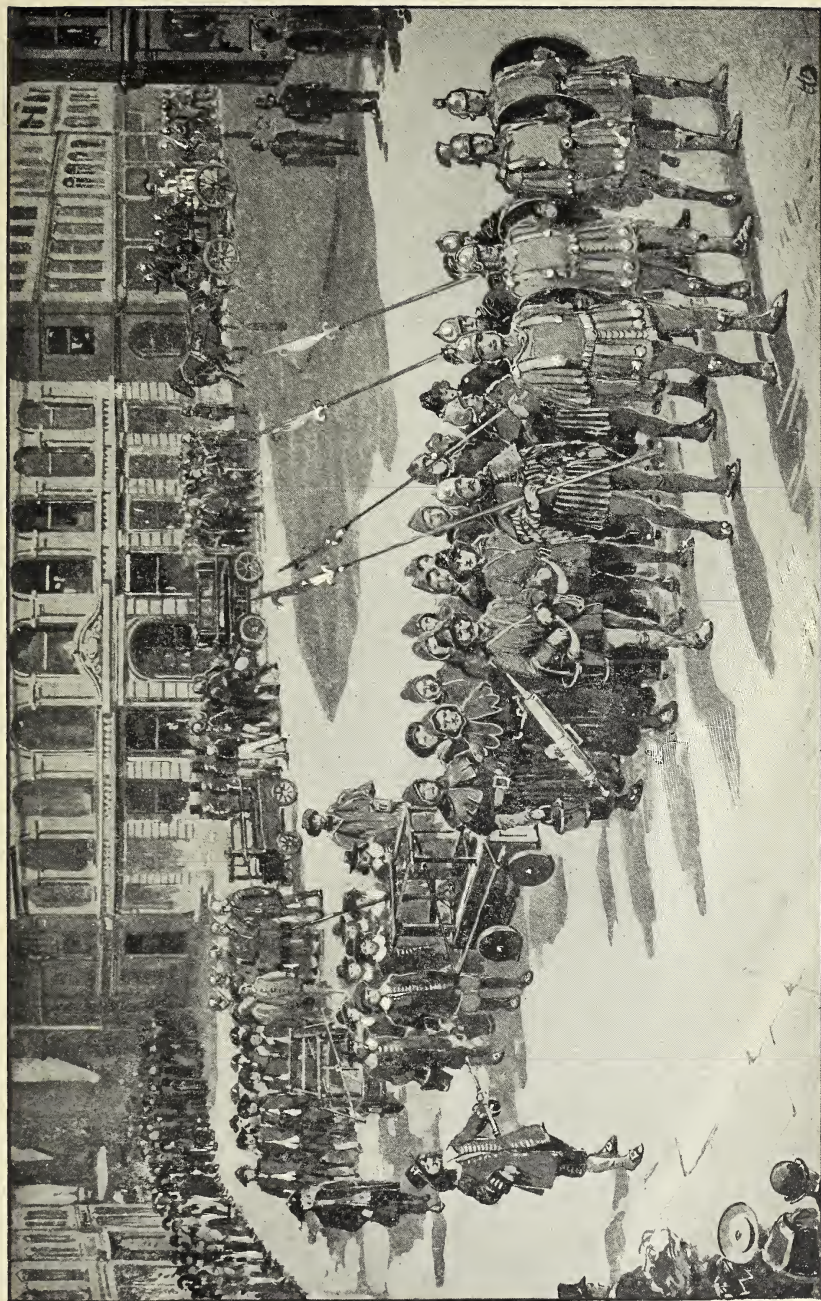
The performance in the Empress Theatre is opened by a procession of the various bodies, methods, and means utilised for the extinction of fires during nearly 2,000 years.

The quaint spectacle is afforded of the noble Roman soldiery (of whom Shakespeare speaks so enthusiastically in his plays) endeavouring, not to extinguish fires, but to pull down and destroy all adjoining buildings, in order to prevent the spread of a conflagration, that the puny means at hand were incapable of putting out.

For many years after the Roman era the example set by the Latin Empire ruled all the authenticated procedure of extinguishing fires, and not until A.D. 1189 (as is shown in the procession) was much improvement introduced.

A little later, in Edward the First's reign, an alarm of fire was signalled by hired horn-blowers, who, by blasts on the instrument mentioned, gave warning to all and sundry a fire was raging in the neighbourhood, and men armed with pikes kept the few onlookers at bay whilst the troop of men with buckets threw the contents of their tiny receptacles on to the flames.

Then come representatives of one of England's greatest queens—Good Queen Bess—who, whilst strongly in evidence on the element of which Britain is the acknowledged ruler, must certainly be considered ludicrous in their efforts to control the opposite element, Fire. The old custom is exhibited of the Bell-man of the village entreating the householders to remain in bed—an appeal which nowadays would certainly add to the numbers likely to assemble at a fire. Here also is introduced a fire engine



HISTORICAL PROCESSION.





—one of the first ever constructed—the records of which are many and complete.

## THE ORIGINAL FIRE-ENGINE OF THE WORLD.

It is a quaint, elongated specimen of the Roman squirt, with the exception that our ancestor's favourite engine has to be filled by buckets of water being poured into a funnel, and then thrown on the burning building by means of a pressure screw. The energy of the firemen of the period, strangely habited in cowls and gowns, together with the inadequate means at their disposal, form a striking object lesson.

Next in order come the stirring times of Charles, the Commonwealth and Restoration. The period exhibited in the procession is from A.D. 1626 to 1680, and embraces the greatest conflagration with which this country was ever visited, *i.e.*, the Great Fire of London in 1666. This section of the procession should be especially interesting to English audiences, as showing in an absolutely correct manner the sole appliances available in Charles II.'s time for stopping this, the most disastrous fire in our metropolis.

At this period the custom observed at fires was:—First, the rattle-man, with noisy authority, gave note of the fire. Then the pumping-men from the nearest station were informed by the rattle-man. The pumping-man aroused the mayor (if asleep) and the mayor (after he had arisen and cared to turn out) gave up the key of the engine-house to the rattle-man. The rattle-man called up the fire brigade, the fire brigade went for the engine, and carried it to the scene of the fire, by which time, it was more than likely, the building was destroyed and the inmates burnt to death.

In this section of the procession will be shown

### “THE DELUGE”:

#### **The Original Fire Engine used at the Great Fire of London, 1666**

also an engine, lent by Captain Pett, of Exeter, which is supposed to be one of the first double-handed pumping engines ever constructed.

1725 is the next period represented by the monkish firemen and the celebrated Newsham engine. This is also a double pumping engine of quaint construction, and had to be dragged to the desired point by 8 men with strong ropes.

The procession now approaches 1791, a period fraught with the greatest interest to all classes in the civilised world, for it marks the invention of the steam engine. But yet no adequate advance is apparent in appliances for fire extinction. The audience are shown the celebrated "Charlies," with their horn lanterns, the only police known to the subjects of King George I. The "Charlies" gave the warning of fire, and on the engine arriving the firemen sat and worked the pumps with both hands and feet. One machine of this period has been loaned by Bexley Heath and another by Tenterden.

From 1791 to 1840 the procession proceeds, in the reign of our late Queen Victoria, the first noticeable innovation being the appearance of Sir Robert Peel's new police, who supplanted the "Charlies."

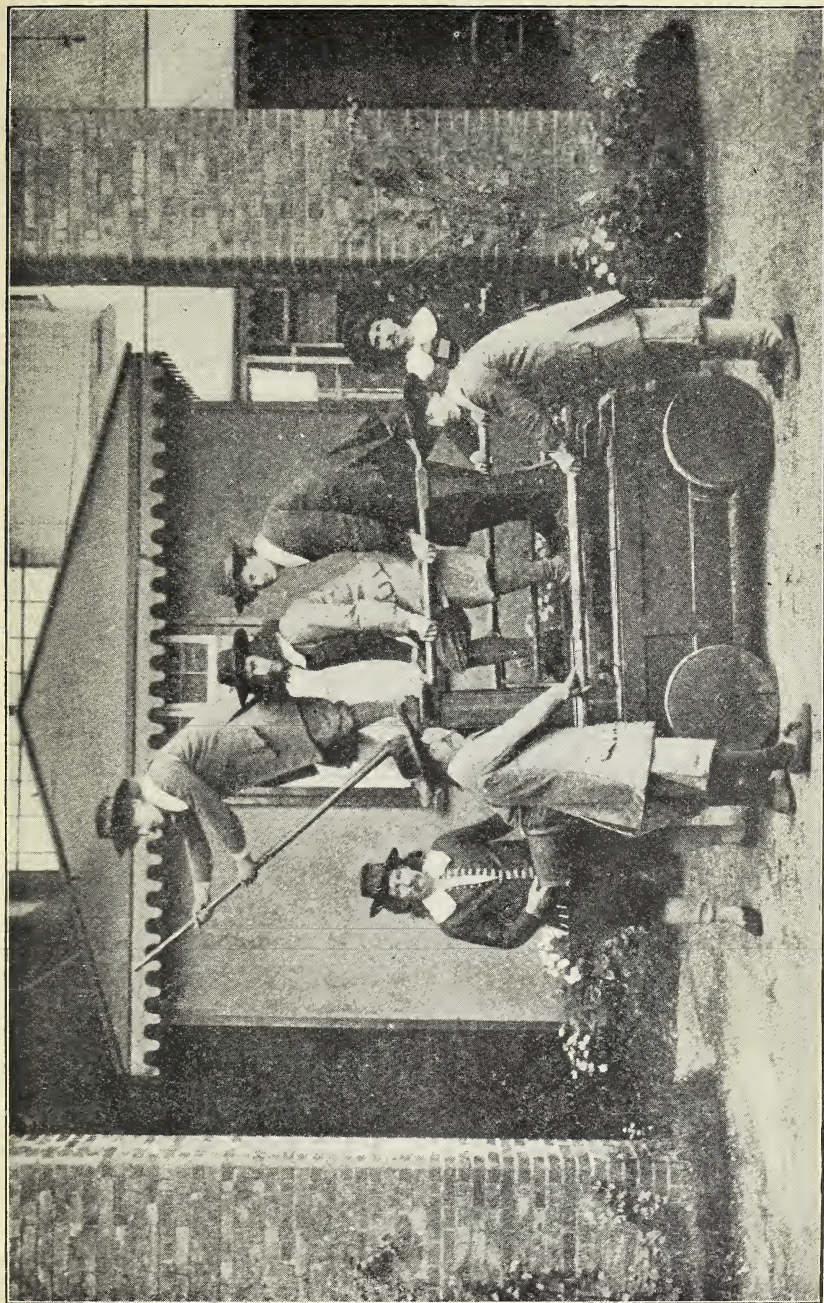
The skirted firemen enter and proceed to work the new-fashioned manual engine, their long axes and modernised buckets already showing the advance made since the beginning of the century.

The engine exhibited in the procession is from Ashbourne.

Following these from 1866 to the latter years of Victoria, are an engine from Tonbridge and firemen in more modern costumes.

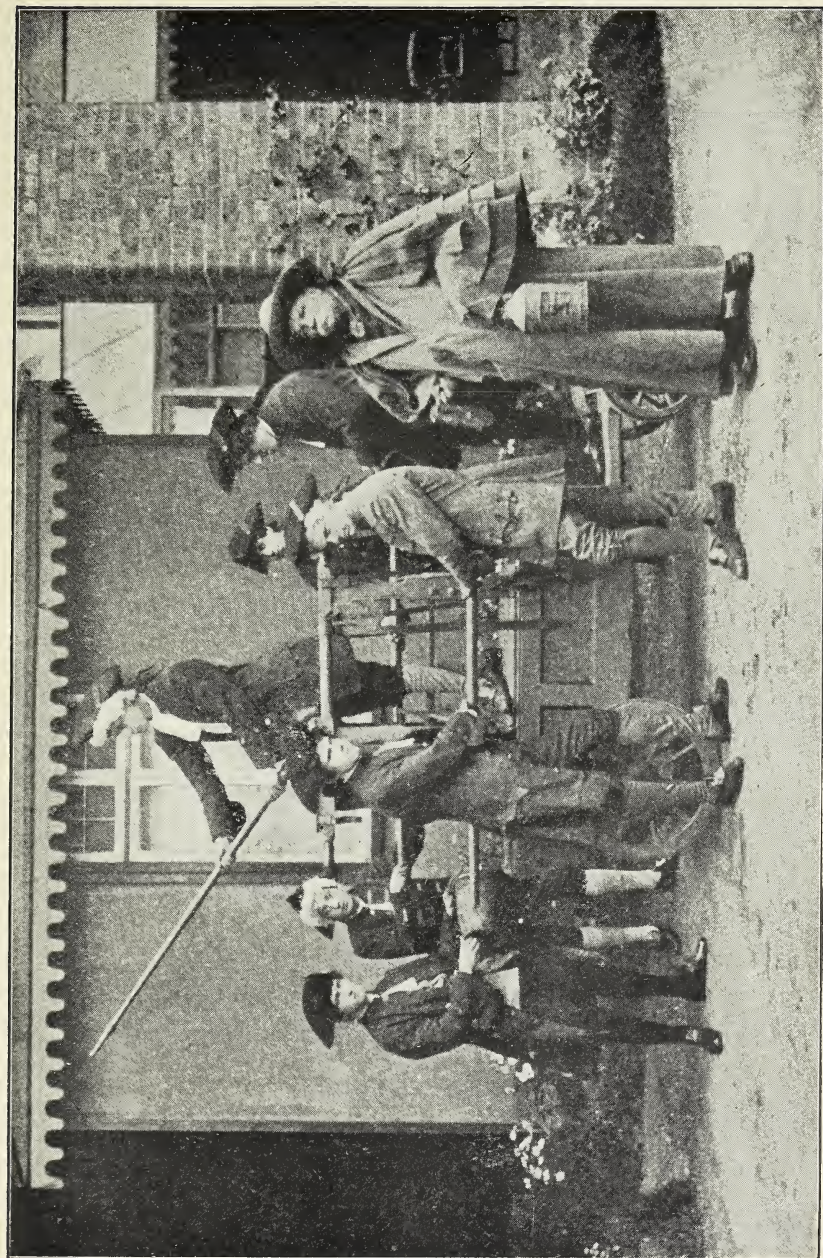
This brings the procession down to the reign of our present King, when the engines, escapes, and other appliances may be said to symbolise the highest efficiency yet attained in fire-fighting methods.





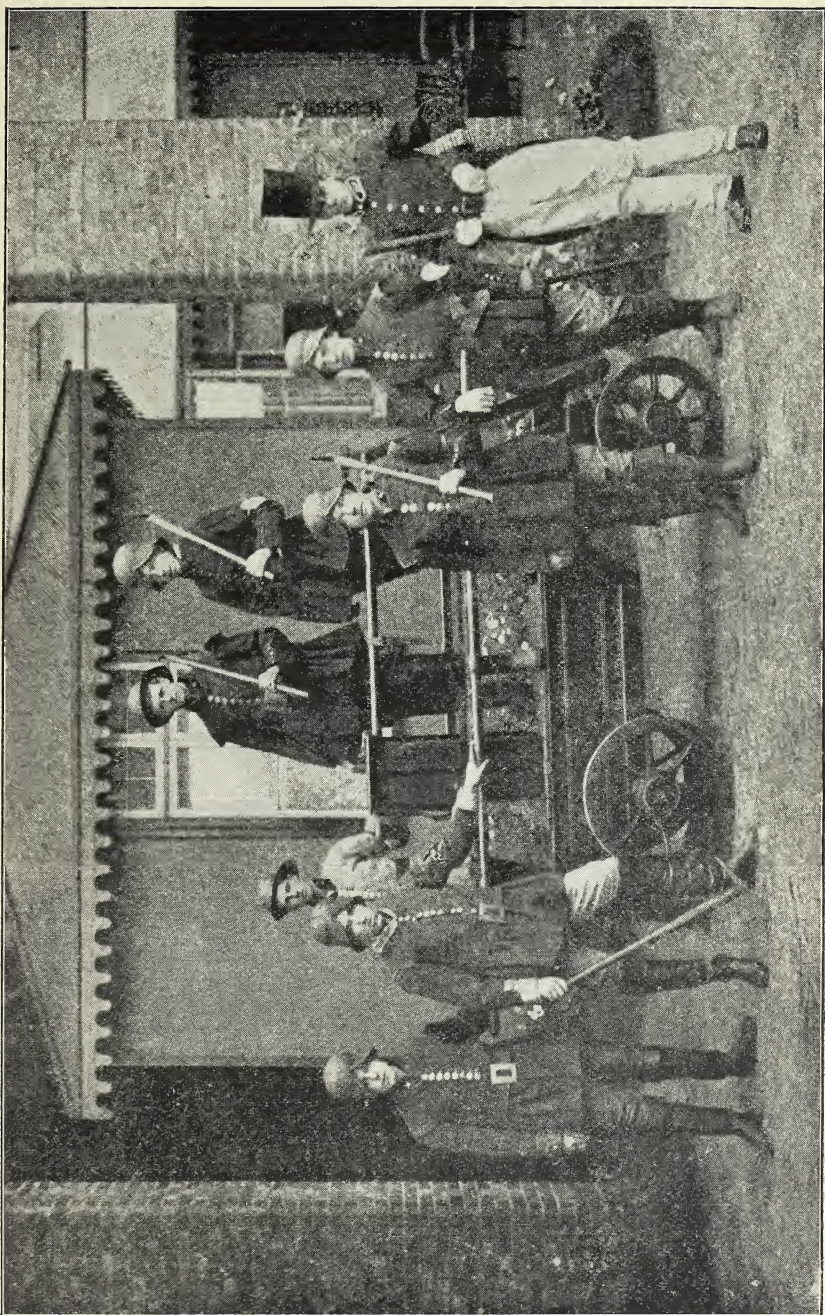














# Exhibition and Display

OF

*UP-TO-DATE METHODS*

BY

**EXPERT FIREMEN**



AND THE

**LATEST APPLIANCES.**

**The Marvellous Pompier Ladder  
Drill.**

**RESCUES WITH THE HORSE-ESCAPE.**

**Steam Fire-Engine Races.**

**LIGHTNING "TURN-OUTS"**

FROM THE STATION.

And other exciting items.



The Directors of the London Exhibitions, Limited, acknowledge their indebtedness to the firms mentioned.

The Steam Fire Engines used for "Fighting the Flames" in the Empress Theatre have been manufactured and supplied by MERRYWEATHER & SONS, LTD., Greenwich Road, London, S.E., Fire Engine and Fire Appliance Makers, and by SHAND, MASON & Co., 75, Upper Ground Street, Blackfriars Road, London, S.E., Fire Engine and Fire Appliance Makers.

Both these well-known firms have imposing displays of exhibits in the Imperial Gardens.

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All the hose (with gun-metal couplings) used in the realistic representation of "Fighting the Flames" was made and supplied by the DOMINION BELTING AND MILL FURNISHING Co., of 12, Colonial Avenue, Minorities, E.C. It is known as the "Brigade" brand, and is genuine hand woven. It is guaranteed to stand a pressure of 500 lbs. to the square inch, and is claimed to be the strongest canvas hose that is made.

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The Fire-Escapes utilised so effectually in the Empress Theatre for rescuing the people in "Fighting the Flames," were made by BAYLEY'S LIMITED, Wagon Builders and Fire Appliance Manufacturers, Newington Causeway, Southwark, London, S.E. The firm's exhibit is displayed in the Imperial Gardens

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The daring leaps for life in "Fighting the Flames," Empress Theatre, are made into a Jumping Sheet devised and constructed by JOHN SMITH & Co., Tarpaulin Manufacturers, 290, Cable Street, London, E.

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To Messrs. Stuart and Moore, of Ealing, W., are due much of the complete and accurate-working installation of the Fire Station in the Empress Theatre. The whole of the "Quick-opening" apparatus for the Main Engine-House doors, the street Fire Alarm, and Fire and Call Bells, the disappearing bed-clothes of the Firemen, Pompier Ladders, etc., are all of this well-known Firm's manufacture. Appliances manufactured by this firm are exhibited in the Imperial Gardens.

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Greenwich Time is indicated in various parts of the Grounds and Buildings on clocks supplied by the Synchronome Co., of 32, Clerkenwell Road, London, E.C.

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THE NATIONAL TELEPHONE COMPANY have a Call Office at their Exhibit in the Queen's Palace, which can be used by the Public on payment of 2d.

## *Some Remarks.*

By EDWIN O. SACHS,

*Chairman British Fire Prevention Committee.*

Why this Fire Exhibition? Why this wonderful spectacle, "Fighting the Flames"? When the Fire Exhibition was first mooted how often these two questions were asked.

The Exhibition is being held to popularise a much-neglected subject, and to show everyone how eminently interesting this great subject is. To be interested and to be instructed at one time is the original aim of the vast majority who visit exhibitions. Here, now, at Earl's Court will be found an exhibition which contains much within its grounds that is amusing, much in its exhibits that is eminently interesting, and also a very great deal that is instructive.

Not the least of the features intended to be amusing, interesting, and instructive, is the spectacle entitled "Fighting the Flames." Who, may we ask, knows anything of the history of fire fighting? Here at Earl's Court the history will be shown you in one short pageant, and you will remember it.

Who knows much about fighting the flames as practised to-day? We know of the gallant men of the professional and volunteer fire brigades anxious and keen to attend fires in their districts, to save life, to save property, and to make themselves generally useful. But who of us has really appreciated the character of their vocation, their duties, and their work? Who of the many millions in Great Britain have actually seen a fire from beginning to end? From the moment of ignition to the departure of the last man? And who of those few has seen this at leisure, without the inconvenience of travelling, hustling, fighting, and probably a chill and a week in bed afterwards?

Here in the Empress Theatre you will be able, we hope, to see everything as realistic as it can possibly be depicted, and see

it in comfort, at a small cost, and presented in such a way as to give you not only a full appreciation of the subject, but an additional kind thought for those brave firemen who work for you, partly voluntarily, partly as paid servants, but who one and all work for your benefit. And you will also remember the many lives which have been sacrificed by these brave firemen doing their duty by helping others. You will remember how many have been injured helping others to safety, and that there are widows and orphans who have lost their mainstay, owing to the gallantry with which their supporters have tried to assist others.

When you leave this Exhibition and this spectacle you should know that the subject of fire fighting and fire protection, as it is generally termed, is a vast one. You will perhaps appreciate its economic importance. You will perhaps remember the many lives lost by fire and the many millions sterling in actual waste of property destroyed by fire. You will then perhaps also comprehend why efforts are being made to prevent fires, and why the Executive of the British Fire Prevention Committee has been so anxious to assist in popularising this important subject. For it is only, as you will have seen yourself, by a true combination of the methods of fire *prevention* and the methods of fire extinguishing, that the number of lives annually lost can be reduced, and the fearful annual ash heap of property decreased.

We must *prevent* the possibility of fire. We must *prevent* its natural tendency to spread by adopting modern methods of construction; but when a fire does occur we must have every modern appliance at our disposal to immediately call to the scene as rapidly as possible those who will aid us, and we must organise and equip those who risk their lives in doing this with everything that modern science and ingenuity can give them. We must *prevent* fires with the aid of legislation and other influences, and we must extinguish fires with the best of organised forces, and with the aid of the most modern and efficient equipment. If this Exhibition and this demonstration of Fighting the Flames does what it is intended to do, many hundreds of thousands of visitors to Earl's Court will go homewards this way of thinking, and may impart these thoughts to their friends.



They will also go home interested by having seen a sterling and realistic display such as has never been attempted anywhere else in the world, and is not likely to be repeated elsewhere owing to the great difficulties which could not be overcome but for such a splendid building as the Empress Theatre, and with the aid of such a splendid organisation as the National Fire Brigades Union, the great centre of volunteer firemen, with whose co-operation the British Fire Prevention Committee has been working on this occasion.

The Directors of the Earl's Court Exhibition may well be proud of being able to attempt to give the public something so interesting, so instructive, and so unique, and they hope also of such considerable benefit to the community at large, as the Exhibition and spectacle presented in the metropolis during the summer season of 1903. All who have helped in this matter may be regarded as having done their mite towards the solution of the great problem of fire protection which the British Fire Prevention Committee wishes to facilitate.

# A Shower of Sparklets.

*"A spark neglected makes a mighty fire.—HERRICK.*

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Fire is derived from the Anglo-Saxon word *Fyr*.

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In Albania to spit in one's Fire is considered an unpardonable offence.

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A pyromaniac is one who has an irrepressible propensity for setting places on fire.

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It has been said of Fires as of births that two-thirds of them occur in the night.

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Incendiarism in America is delicately termed, "selling out to the Insurance Companies."

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In England beer has been utilised frequently to extinguish Fires when water was scarce.

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Fire Insurance Policies were first issued in London in 1667, following on the Great Fire of the previous year.

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Steam Fire-engines were first used in London in 1829. They had been introduced in Nuremberg 172 years previously.

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In 1888 at St. Paul's (U.S.A.) a wheat elevator was still burning *fourteen months* after the original conflagration.

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Fire-engines are said to have been invented by Ctesibius 250 years before Christ. They are referred to by Pliny A.D. 70.

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The value of *insured* property destroyed by Fire all over the world is estimated at £40,000,000 to £50,000,000 annually.

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"It is not the Great Fires which account for the great loss of property, but the moderate ones."—*Encyclopædia Britannica*.

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"For Fire and people doe in this agree,  
They both good servants, both ill masters be."

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BROOKE.

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The most disastrous year London has ever experienced through Fire was 1899, when 119 persons lost their lives in 3,846 Fires.

In the olden times a man was held responsible for an *accidental* Fire that broke out on his premises and burned his neighbour's house.

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A smoking chimney well coated with soot (carbon) forms a very tempting conductor for the exit of the upward current of lightning, as well as an attraction for the descending current.

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The Loss from Recorded Fires in Great Britain for 1902 was £900,000 over 1900 and £500,000 over 1901. Hazell estimates the Insurance Losses for 1901 in the United Kingdom at £12,700,000.

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Chlorate of Potash tablets carried loose in a man's vest pocket burst in flames in Brooklyn (U.S.A.) through his watch falling on them. His clothes were burnt through to his flesh, and his hand was painfully burned.

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Among the Etruscans and the Romans the fireplace became the family altar. The "sanctuary of the hearth" (*foci penetrales*) was the centre of Roman home life. Here were enshrined the gods who watched over the house.

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The three most disastrous months for London Fires are December, November, and January in the order named. The last week in the year has the worst record, and Tuesday exceeds the rest of the week—*unlucky* Friday being the lowest.

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A keen American adjuster of Fire losses was asked whether he thought friction was responsible for many Fires. He replied that the rubbing of a £10,000 insurance policy against a building worth £5,000 or less was very likely to produce Fire!

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Under the Law of the Ancient Romans incendiarism was punished by a horrible death. The convicted person was enveloped in the *Tunica Molesta*, a garment made of paper, flax, or tow, and smeared over with pitch, bitumen, or wax, and then burned alive.

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Umbrellas have been known in several instances to burst into flames and be destroyed when made of adulterated black silk. Silk is almost pure carbon, and nitrate of iron enters largely into the process of dyeing, the result of the union being chemical decomposition.

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Birds coming down chimneys and becoming partially ignited, and then fluttering in their fright against drapery or curtains, have caused serious Fires. About thirty years ago a Fire occurred in London through a jackdaw pecking at a box of lucifers until they burst into flame.



## Brief History of Fire Fighting.

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As far as the spectacle is concerned, we only have to deal with fire extinguishing, and fire extinguishing has had a history. It is this history as far as it primarily concerns Great Britain that it is intended to illustrate by the pageant.

Let us remember that Emperor Augustus, approximately at the commencement of the first century, organised in Rome one of the first Fire Brigades of which we have any record. Rome at the time is supposed to have had some two million inhabitants, and Emperor Augustus organised 7 cohorts of watchmen, generally known as *vigilanti*, each cohort 1,000 strong. The duties of these 7 cohorts comprised practically those of a Fire Brigade as we understand it to-day. In other words, Rome, with its two million inhabitants, had a Fire Brigade of approximately 7,000 men.

It was officered by a Prefect in general command, while each cohort had one Tribune and 7 Centurions, or in other words there was a Chief Officer, 7 General Superintendents and 49 Foremen in charge of the Fire Ladders of the City of Rome. Each cohort worked as a unit. It apparently had its squirters (*syphonarius*), its water supply men (*aquarius*), and its buglers (*buccinatorius*). It is of interest to note that at a later date another Emperor added to the 7 cohorts a special section of pioneers and sappers. As to the working of this Roman Fire Brigade, which might be compared with either a Military Fire Brigade or Police Fire Brigade, we can find no details.

We do not know how many stations they were distributed in; how they turned out, or what was their system of fire call. We know nothing of their methods or tactics, or equipment excepting that it was generally understood that the pulling down of houses comprised the principal feature of attack. Some authorities, according to the well-known fire historian Professor

Kellerbauer, are of opinion in Germany that the Romans really had a serviceable fire squirt, inasmuch as this learned gentleman referred to certain fire appliances, for which there are records of their having been in existence in Alexandria, but, as we have said, the whole working and equipment of the Roman Fire Brigade is still a subject of mere conjecture.

Between this record of the Fire Brigade of ancient Rome and the 16th century, there is really a great gap in the historical records, inasmuch as they apparently fail to touch on the subject. We understand there are some records in some of the old German towns relating to a fire service in existence in the 12th century. Such records, as there are, curiously point, however, more to a system of fire prevention than to a system of fire extinguishing, for they are in reference to "fire orders" or "fire regulations" (in respect to which there are apparently some data), though there are none recording the organisation of any fire-fighting forces.

The same authority we are quoting (Professor Kellerbauer) asserts that the first fire prevention act he has been able to trace is that of Rudolf I. of Austria for the City of Vienna, dated 1278.

Fire Preventive "Orders" have been traced by this Professor to various Teutonic districts in the 14th century, and he is able to quote in full one dated 1348, of the City of Zwickau, which he considers typical of the towns of that district. Certainly it is curious in this 20th century to hear of these preventive regulations of the 13th and 14th centuries, and yet to know what little appreciation fire prevention really meets with in Great Britain for a subject having such a history.

It is interesting to know that the fire preventive orders of 1348 contain a reference as to fire appliances, inasmuch as the water buckets, tubes, axes of every citizen had apparently to be at the disposal of the public in case of fire, while a certain number of buckets and axes were apparently kept at the public expense, together with fire hooks and large tubes on slays out of the public funds.

What applies to Central Europe in that date also applied to Great Britain, although we have no records before us. Chief Officer Dyson, in his history of the British Fire Service, says

there are regulations to be found according to which the citizens were to have buckets filled with water ready at the disposal of the public between the Feasts of Pentecost and St. Bartholomew, and that in the 13th century night watchmen and bell-men were employed in London.

Regarding the invention of the fire pump authorities differ, but apparently the invention has been traced to the City of Nuremberg, and to the year 1518, and the inventor presumed to be a certain goldsmith, Anton Platner; but we should certainly not like to vouch for this, as there seems to be a considerable amount of controversy on the subject as to where the honour should rest. At all events, as far as Central Europe is concerned, we cannot trace many of these appliances, until we come across a maker in Augsburg, who in 1602 was apparently making a considerable number.



# LONDON FIRES

## And Loss of Life

from 1883 to 1901 inclusive.

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1883	...	...	39	Lives	Lost	in	2,144	Fires.
1884	...	...	42	"	"	"	2,289	"
1885	...	...	47	"	"	"	2,270	"
1886	...	...	49	"	"	"	2,149	"
1887	...	...	55	"	"	"	2,363	"
1888	...	...	48	"	"	"	1,884	"
1889	...	...	44	"	"	"	2,338	"
1890	...	...	61	"	"	"	2,555	"
1891	...	...	47	"	"	"	2,892	"
1892	...	...	64	"	"	"	3,146	"
1893	...	...	82	"	"	"	3,410	"
1894	...	...	82	"	"	"	3,061	"
1895	...	...	91	"	"	"	3,633	"
1896	...	...	106	"	"	"	3,616	"
1897	...	...	87	"	"	"	3,500	"
1898	...	...	98	"	"	"	3,585	"
1899	...	...	119	"	"	"	3,846	"
1900	...	...	74	"	"	"	3,385	"
1901	...	...	97	"	"	"	3,684	"
Grand Totals			1,332				55,750	

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## Notes on Modern Fire Matters.

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We see before us a typical business thoroughfare. Both sides are lined with high buildings, containing offices and workshops. Let us consider what we have at our disposal for combating an outbreak of fire.

We will imagine the big building in front of us to be filled on the lower floors with a staff of clerks and servants; on the upper floors with sorters, packers, etc., for we will assume this big building is a big stationery warehouse with a great *personnel*; show room on the ground floor; counting house, and upstairs we have the sorting and packing, and probably also some printing, such as is required for note-paper headings and the like.

In the first place there are the possibilities of self-help. We will assume the establishment has a watchman. We will even assume some of the staff are drilled as actual firemen. Nothing could be better. For it is the fire in its infancy that should be smothered.

But our assumption is wrong. This establishment has no organisation for self-help. It could have had, and the fire we are going to depict might have been crushed in its infancy. There might have been a smart house fire brigade, hydrants in the building, and the fire could have been put out at once. All those volunteer firemen of the private house brigade would have kept the fire in check until the arrival of the official fire brigade, under whose orders the private brigade would have assisted them.

Naturally, it is the official brigade that takes command on such occasions. Unfortunately these are all "might have beens." The fire breaks out. It is seen from the outside, and there is no help from within. We will hope that there is at least some independent self-help, that is to say someone in that house knows how to take the first measures to prevent the spread of fire, although there is no organised establishment in the house for this purpose. But there is no one. There is not even a man who knows he ought to run to the nearest fire alarm and call the brigade at the earliest possible moment.

In many establishments no one knows and no one cares one jot about the possibilities of fires, and it is only when the owner has seen his splendid establishment converted into an ash heap, his stocks ruined, and knows it will take at least nine months to re-build, and a long time to re-stock, and that in the meantime his competitors will be taking some of his clients, that this employer realises what a mistake it has been on his part not to take precautionary measures in advance.

We will assume the building is fitted with the most modern up-to-date automatic fire alarms; that it does not matter that there is no private fire brigade on the premises, and that there is no one who has the initiative to go to the nearest fire point call and give a helping hand. Everything will be done automatically. The automatic fire alarm goes off on the increase of temperature, rings a bell at the automatic fire alarm company's station, and they transmit the call to the nearest fire station. Or, better still, we will assume that there is even a direct communication to the nearest fire station. But again there is nothing of the kind. The employer has felt satisfied; he is insured, and pays a handsome premium.

There is no incentive, or any other encouragement for him to put in an automatic fire alarm system, hence there is no automatic call of the fire brigade. But we will assume that he has followed the recommendations of the public authority, and has at least got a brigade call box, fire alarm, from the building (well known for its dangerous contents) to the nearest fire station. Again we are disappointed, he has nothing of the kind. The public authority has no power to insist on such an inter-communication.

He does not like to extend the same advice which has been given to theatres and other places of entertainment respecting this method of inter-communication. Again, we will assume he has at least a telephonic communication. His employees can ring up the nearest fire brigade station. The word fire brigade given to the telephone exchange means a connection by the nearest route to head quarters. But the owner has old fashioned methods; he does not like the telephone. The juniors in his firm have not been able to persuade him, and hearing the debate on the



advantages and disadvantages of the two local systems, he prefers to take neither. So in this hour of need he has not even got this form of communication. As a matter of fact, the fire is seen from the outside.

The call is given to the nearest fire alarm, the ordinary fire call by fire alarm post so well known in big cities. Luckily he who calls knows its position. Half the citizens do not know the position of the nearest fire call point to their place of work, and, what is more, do not care. Many of them do not even know that the red boxes they see in the streets are fire alarm points. It is not vividly impressed on their minds. Some have an inkling of these positions, but do not know where to find them, hence they lose time and run to the nearest fire station, which may probably be far distant, although the post, if they knew it, was near at hand. Would that every citizen knew the fire alarm points in his district as he knows the nearest pillar-box. Would that, in the event of his not knowing them, that they were of a more conspicuous character than they are, and more easy to find.

In some towns big red lamp posts are fixed to the call points, and at night there is a red lamp burning. In other towns they have a conspicuous post, with a big inscription, to mark the position of the fire call point. In others, again, they indicate its location by fixing darts conspicuously painted on adjoining lamp posts at all street corners, so that he who runs and follows the darts must arrive at a call point. For the purpose of the story here shown we take things as they are. The owner of the property knows and cares nothing about fire protection.

The fire is found alight from the outside; the fire call is given in the ordinary way; the firemen start out; there are lives to save; the horse escapes arrive; they are put into motion; the firemen pluckily rescue the inmates; the firemen commence to fight the fire; the salvage appliances have arrived, more fire appliances arrive, and we see the whole scene of a fire in full activity. It is the usual scene at a fair-sized fire.

The water put on the fire is taken from a street hydrant; the hydrant hole has to be found; the hydrant taken off the trap; the hose connected, and the water put on. That little letter "H" we see at the various street corners indicates approximately the position of the nearest hydrant; the steamers arrive; they have been standing in their stations with the water warmed up; they

arrive; they are unshipped off the trucks that carry them, raised, and put into position. The firemen nimbly go up them and carry down those they are saving.

The Salvage Corps men, who have arrived in the meantime, are busy on the lower levels covering up goods with tarpaulins to protect them from water damage, for the property is heavily insured, and the insurance companies wish to reduce the loss as much as possible, not only by fire, but the loss caused by damage from water, which is sometimes very heavy. The brigades which attend are drawn from various stations in the neighbourhood, all within the specific district in which the fire occurs. Each unit has its own foremen, and the groups of units its own superintendent.

An officer from head quarters is attending to see that the district is doing its duty. In some brigades the superintendents rise from the ranks; in others they are specifically placed there after retirement from the Army or Navy. In others, again, the whole brigade is only a department of the Police Force, and hence a superintendent ranks with a Police superintendent, responsible to the Chief Constable.

For the Metropolis is divided up into several districts, each having its own organisation; superintendent, foreman and firemen. The districts North and South of the river are grouped together into divisional commands, and the officer in divisional command is attending this fire. By the bye, the firemen of the brigade at work are recruited from all trades connected with building.

In some brigades they are recruited entirely from the Navy. In some they are all mechanics. In some they are recruited from all sources. The sailor has the benefit of being a good climber, a handy man, and used to the rough-and-tumble work of a fireman.

The artizan, on the other hand, knows all about building construction, and appreciates the pros and cons of the value of the different beams he sees affected, and the thickness of the different walls.

It seems about this time, as far as Central Europe was concerned, the fire engine was being recognised by the public authorities, for in 1616 Leipzig speaks of them in some regula-

tions, and in 1642 Dresden speaks of them, whilst Dortmund speaks of them in 1677. According to records of the Great Fire of London, it would appear that it was really the hand squirt which was principally used at that time to extinguish the fire, but shortly afterwards, to quote Chief Officer Dyson, engines for shooting water came into vogue, although the squirt and pike remained and were preferred to these new engines. It was not until after this fire that the matter of fire protection was seriously taken up, if we accept the law which was passed in 1583, and gave power to pull down and pull up houses to prevent the increase of fire, for it was not until after the Great Fire of London that there was any real scheme formulated by the various City Companies to attend fires, etc. Here, by-the-bye, it should be remembered that the Corporation of the City of London undertook a certain amount of fire insurance business about the year 1681.

Continuing the question of fire appliances, Jan van der Heyde is supposed to have been the inventor of fire hose, about the year 1672. The hose was called "snakes" at the time, and the fire engines equipped with hose were called snake engines in Holland. The subject of fire fighting about this time seems to have been one of great popularity in Holland, for it is dealt with in many engravings and on various monuments, and Jan van der Heyde was certainly considered a great public benefactor in his day. You might in fact say it was from the date of the invention of the hose, combined with his improved invention of the fire engine, that the more modern equipment of the fire fighting forces came into vogue.

There seems to be some general error that the first hose made by Jan van der Heyde was in the form of some kind of gut, but as a matter of fact the first hose he made was out of ordinary sail cloth cut in long strips and sewn together. After that, strips of leather were used, and these were also sewn together. It was apparently not until the turn of the nineteenth century that leather hose with copper rivets was used. As to who made the first woven canvas hose we do not know, but we understand a weaver in Leipzig claims this honour to the date of 1720.



Continuing the historical items, it may be of interest to note that there was an Act passed in 1707 making Churchwardens responsible in London for the fixing of fire plugs, and the procuring and keeping in repair of a large engine with hose. In 1763 another Act was passed, whereby rewards were to be paid to those in charge of the engines who were first on the scene of fire. We believe the first fire insurance company dated from the year 1791. The Insurance concerns had various stations in London in 1794, and apparently also extended their system to the provinces.

Speaking of provincial centres, it was the great fire in the City of Edinburgh, at the turn of the eighteenth century, that led the City Authorities, in 1703, to appoint a fire master and a number of assistants in Edinburgh, from which time onwards the Chief Officer of the Brigade in Edinburgh, as in Glasgow, is termed the Fire Master. Here we would perhaps mention that the Edinburgh Police Fire Engine Establishment was formed in 1824, when James Braidwood was made Fire Master.

The first municipal Fire Brigade on modern lines we can trace is that of Paris, known as the *Pompier Corps*, dating from 1716. The Berlin Fire Brigade was not organised until 1851. The London Fire Brigade was not taken over from the Fire Engine Establishment until 186?

# International



# Fire Prevention Congress

TO BE OPENED AT



EARL'S COURT EXHIBITION,

July 6th, 1903. .. .. .



Opportunity has been taken of

## The International Fire Exhibition, 1903,

being held at Earl's Court to organize an  
INTERNATIONAL FIRE PREVENTION CONGRESS,  
under the auspices of the British Fire Prevention  
Committee.

A detailed list of the Members of the Honorary  
Advisory Council and various Sub-Committees will be  
found on pages 5 and 8.

## OBJECTS.

It is rarely that those concerned in the different interests relating to fire prevention have an opportunity to discuss collectively their views, and it is hoped that, by bringing together the various personal elements in fire prevention, collecting the best information, discussing the latest achievements, and recording the most practical technical results, some advance will be made, not only in checking fire wastage, but in reducing loss of life.

The primary objects of the Congress, among others, are as follows:—

I. To discuss the practice of building construction and the application of building materials from a fire preventive point of view; to compare the practice in different countries, and to inquire into the latest materials and systems of construction available, as also the latest inventions for the general equipment of buildings.

II. To discuss the equipment of buildings particularly in relation to the application of electric power and electric light, and to receive the views of electrical engineers and Fire Brigade officers as to the origin and prevention of electrical fires, including fires caused by lightning.

III. To discuss the legislative enactments in force in cities and districts, particularly in respect to the limitation of area or cubical contents for warehouse buildings and workshops, and the means of separating and uniting such buildings, also the means of escape in case of fire; further, to consider particularly the regulations governing the construction and control of theatres and places of public resort, and the provision of staircases and means of escape for the audience and employees; as also the regulations governing the construction of dwelling-houses and houses let in tenements, and the amount of fire-resistance to be provided and the means of escape in case of fire.

IV. To discuss the best means of watching or inspecting buildings and plant exposed to fire risks without undue inconvenience to owners and occupiers, the practice of fire brigades in this direction, and the experience of the various fire patrol systems.

V. To discuss the practice in respect to insurance against fire; to ascertain the systems adopted in various countries; the risks insured against; the regulations and requirements of the National, Municipal, Public and Private Insurance Corporations, and to inquire into the systems of mutual insurance, the precautions taken against incendiarism, the statistical record of fire losses, and the preparation of uniform fire maps and plans.



VI. To discuss the best means of recording the causes and effect of fires, and tabulating the results, so that a basis for comparison may be obtained and standards compiled for various degrees of fire-resistance required in different buildings and suited for various materials; to discuss the best methods of testing materials and recording the facts of such tests for the information of those engaged in the construction, use and protection of buildings from fire.

## PROVISIONAL PROGRAMME OF CONGRESS.

The Congress will sit in General Congress and also in Sectional Congress.

There will be six sections:—

Section I.—BUILDING CONSTRUCTION AND EQUIPMENT.

Section II.—ELECTRICAL SAFEGUARDS AND PROTECTION FROM LIGHTNING.

Section III.—LEGISLATION AND ADMINISTRATION.

Section IV.—FIRE SURVEY AND FIRE BRIGADE PATROLS.

Section V.—INSURANCE AND FIRE LOSSES.

Section VI.—STANDARDS AND TESTS FOR MATERIALS.

Two days will be devoted to General Meetings for the reading of papers and general discussion.

One day will be devoted to Sectional Meetings, each Section working as a separate unit.

Part of the Congress time will be devoted to an inspection of the British Fire Prevention Committee's Fire Testing Station, to the examination of the exhibits of the International Fire Exhibition, to visits and excursions.

## EXECUTIVE MANAGEMENT OF THE CONGRESS.

The entire Executive arrangements of the Congress will be with the Executive of the British Fire Prevention Committee, comprising EDWIN O. SACHS, *Chairman*; ELLIS MARSLAND, *Gen. Hon. Secretary*; MAX CLARKE, A.R.I.B.A.; FRED R. FARROW, F.R.I.B.A.; CHAS E. GOAD, M.Am.S.C.E.; F. W. HAMILTON, A.R.I.B.A.; F. HAMMOND, F.R.I.B.A.; LIONEL J. LANGRIDGE, A.Inst.E.E.; ROBERT MOND, M.A., F.R.S.Ed.; JAMES SHEPPARD; and ED. WOODTHORPE, M.A., F.R.I.B.A.

There will be British and Foreign Chairmen and Vice-Chairmen as well as Hon. Sectional Secretaries for each Section of the Congress.

There will be special sub-committees recruited from this Executive and the General Membership of the Congress for the arrangement of (1) the Meetings; (2) the Entertainments; (3) the Publications.

*National Fire Brigades' Union.*

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**.. GRAND ..**

**Firemen's Tournament**

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AT THE

**International Fire Exhibition,**

***EARL'S COURT, S.W.,***

**July 9th to 18th, 1903.**

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FOR the purposes of this Tournament a Firemen's Camp will be pitched in the Exhibition Grounds, near the Entrance from West Kensington Station.

The proceedings will be initiated on Thursday, July 9th, by the Opening of the N.F.B.U. Camp and Congress.

On the Eight Days following Competitions will take place in the events mentioned on the next two pages.

# LIST OF EVENTS.

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## National Escape Challenge Shield.

First Prize, Challenge Shield and £3; Second, £2; Third, £1 and Diploma.

## National Steamer Challenge Shield.

First Prize, Handsome Silver Challenge Shield and £5;  
Second, £4; Third, £2; Fourth, £1 and Diploma.

## National Hose Cart Challenge Shield.

Presented by Messrs. BARRETT & CO., Wood Green, N.

First Prize, Handsome Silver Challenge Shield and £3;  
Second, £2; Third, £1; Fourth, 10s. and Diploma.

## The May Challenge Cup.

Presented by Messrs. MAY & CO., Basingstoke.

First Prize, Handsome Silver Challenge Cup and £5;  
Second, £4; Third, £2; Fourth, £1 and Diploma.

## National One Man Challenge Cup.

Presented by the MAYOR OF WOODSTOCK.

First Prize, Silver Challenge Cup and £3; Second, £2;  
Third, £1; Fourth, 10s. and Diploma.

## Sachs' Hose Cart Challenge Cup.

Presented by Mr. E. O. SACHS, Chairman of the British Fire Prevention Committee.

First Prize, Handsome Silver Challenge Cup and £3;  
Second, £2; Third, £1; Fourth, 10s. and Diploma.



## National Manual Challenge Shield.

First Prize, Handsome Silver Challenge Shield and £5;  
Second, £4; Third, £2; Fourth, £1 and Diploma.

## Squad Drill Challenge Cup.

Presented by the DUNLOP TYRE COMPANY, Ltd., Coventry.  
For the smartest Unmounted Detachment of not less than Six Men.

## National Ambulance Challenge Cup.

Presented by Lieut.-Gen. The Hon. SOMERSET GOUGH-CALTHORPE.  
First Prize, Handsome Silver Challenge Cup and £3; Second, £2;  
Third, £1; Fourth, 10s. and Diploma.

## The Green Manual Challenge Cup.

To perpetuate the memory of the late Capt. GREEN of Oxford, one of  
the founders of the Union.  
First Prize, Handsome Silver Challenge Cup and £5;  
Second, £4; Third, £2; Fourth £1 and Diploma.

## The Clinton Challenge Shield.

Presented by Messrs. CLINTONS, Ltd., Camp Contractors, Woking.  
First Prize, Handsome Challenge Shield and £5; Second, £4;  
Third £2; Fourth, £1 and Diploma.

## National Knot Challenge Cup.

Presented by Messrs. DALE & REYNOLDS, London, E.C.  
First Prize, Handsome Challenge Cup and £1; Second, 15s.;  
Third, 10s.; Fourth, 5s. and Diploma.

## National Dewar Challenge Shield.

Presented by Sir THOMAS DEWAR, M.P.  
First Prize, Handsome Silver Challenge Shield and £5;  
Second, £4; Third, £2; Fourth, £1 and Diploma.

# The Old Welcome Club.

**T**HIS delightful retreat in the Western Gardens, which offers all the advantages and exclusiveness of a High-class Social Club out of doors, is now enjoying the Eighth year of its existence.

For the use of Members and their friends it is opened daily at noon during the Exhibition season, and closes in May, August, and September at 10.45 p.m., and in June and July at 11.15 p.m.

*President :—*

Field-Marshal EARL ROBERTS, V.C.,  
K.G., K.P., G.C.B., O.M., G.C.S.I., G.C.I.E., D.C.L., LL.D.

*Chairman :—*

PAUL CREMIEU-JAVAL, J.P., Esq.

*Committee :—*

THE EARL OF WARWICK AND BROOKE.  
THE LORD BURTON.  
THE RIGHT HON. SIR EDWARD CARSON, K.C., M.P.  
THE RIGHT HON. W. G. ELLISON MACARTNEY.  
CAPT. THE HON. ALWYN H. F. GREVILLE.  
THE HON. W. F. B. MASSEY MAINWARING, LL.B., M.P.  
SIR EDWARD LAWSON, BART.  
SIR JOHN BLUNDELL MAPLE, BART., M.P.  
SIR WILLIAM ROBINSON, G.C.M.G.  
MAJOR-GENERAL SIR OWEN TUDOR BURNE, G.C.I.E.  
SIR FYRE MASSEY SHAW, K.C.B.  
SIR RICHARD D. AWDRY, K.C.B.  
SIR J. G. HENRY BERGNE, K.C.M.G., C.B.  
SIR THOMAS SUTHERLAND, G.C.M.G., LL.D.  
SIR CHARLES MALCOLM KENNEDY, K.C.M.G., C.B.  
SIR GEORGE C. M. BIRDWOOD, K.C.I.E., C.S.I., M.D., LL.D.  
SIR EDWIN ARNOLD, K.C.I.E., C.S.I., F.R.G.S., F.R.A.S.  
SIR MANCHERJEE M. BHOWNAGGREE, K.C.I.E., M.P.  
SIR JOHN FURLEY, C.B.  
SIR ARTHUR J. R. TRENDLELL, C.M.G.  
SIR CASPAR PURDON CLARKE, C.I.E., F.S.A.  
VICE-ADMIRAL ALBERT HASTINGS MARKHAM, F.R.G.S.  
COLONEL FREDERICK H. RICH.  
COLONEL ROBERT W. EDIS, C.B., V.D.  
WALTER H. HARRIS, C.M.G., Esq.  
COLONEL R. PARRY NISBET, C.I.E.  
MAJOR LEWIS H. ISAACS, J.P.  
HIS HONOUR JUDGE F. A. PHILBRICK, K.C.  
DOUGLAS G. H. GORDON, J.P., Esq.  
FRANK TRAVERS BIRDWOOD, Esq.  
SAMUEL DIGBY, Esq.  
DR. J. IRVINE MENZIES.  
JAMES N. PAXMAN, Esq.  
IMRE KIRALFY, Esq.  
J. M. FRESHWATER, Esq.  
HAROLD HARTLEY, Esq.  
HERMAN HART, Esq.  
R. CLAUDE GARNETT, Esq.  
MAJOR G. E. WYNDHAM MALET, *Secretary.*

Members may introduce three ladies and two gentlemen as Visitors to the Club every day that the Exhibition is open to Season Ticket Holders; and, while enjoying the novelty of a partly open-air Lunch or Dinner, or seated in the Comfortable Lounge Chairs on the Lawn, may listen to the excellent performance of the Grenadier Guards' Band in the stand opposite.

The much-appreciated right of membership is regulated upon the same lines as those of the best West End Clubs.

*All particulars may be obtained from the Secretary.*

# Refreshment Department

CONDUCTED BY

**SPIERS & POND, LTD., Refreshment Contractors.**

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The Refreshment Department has again been entrusted to the well-known caterers, Messrs. Spiers and Pond, who have made arrangements to cater on the largest scale for every class of the community. It may be interesting to remember that this firm has now been before the public for over thirty years, during which time they have undertaken the catering for a very large proportion of the important Exhibitions which have from time to time been held in the metropolis of the Empire. They were the first representatives of English catering who ventured abroad, having had an important restaurant and buffet at the Paris Exhibition of 1867. They were the official caterers at a series of Exhibitions held at South Kensington in 1871 and the following years. They were appointed to cater for the Inventions Exhibition at South Kensington in 1885; for the Indian and Colonial Exhibition in 1886; and during the last few years they have catered at Earl's Court for the

Empire of India Exhibition, 1895,  
 Empire of India and Ceylon Exhibition, 1896,  
 Victorian Era Exhibition, 1897,  
 Universal Exhibition, 1898,  
 Greater Britain Exhibition, 1899,  
 Woman's Exhibition, 1900,  
 Military Exhibition, 1901,  
 Paris in London Exhibition, 1902.

It is instructive to bear in mind that at the earlier dates above mentioned the catering for an Exhibition was on singularly different lines from what it is at present. There was no provision



for a set meal, and very little beyond the ordinary bun and sandwich could be obtained in such places. Now that the enterprise of the London Exhibitions, Limited, has made *al fresco* dining one of the commonplaces of life during the London summer season, the caterers have risen to the needs of the newer fashion, and dining of every description, from the cheapest to the most elaborate, is in vogue amongst all classes.

A short description of the various restaurants may now be attempted.

In the **QUEEN'S COURT** will be found  
**TWO GRILL ROOMS,**

where every variety of grill, and hot and cold joints, are provided for luncheon, dinner, and supper, at the ordinary prices of a modern restaurant, with a large selection of all kinds of other comestibles, as well as wines, spirits, liqueurs, and cigars. These rooms are situated at either corner of the Great Lake, and opposite the Band Stand, where music is played daily during the dinner hours.

In addition there are ample buffets for light refreshments in close proximity.

In the **WESTERN GARDENS** is the  
**QUADRANT RESTAURANT,**

which has been entirely rebuilt, exquisitely decorated in Louis XV. fashion, and carpeted and furnished with the utmost taste and luxury. French windows open on to a fine terrace, looking out directly upon the Western Gardens, and in full view of the Music Pavilion. The cuisine is perfection, and a dinner vying with the best in London, and surrounded with unrivalled features of attraction, is served. That the public fully appreciate the perfection to which this department has been brought is evidenced by the fact that, in order to avoid disappointment, it is advisable to secure tables in advance by letter, telephone, or telegraph direct to the caterers. The table d'hôte luncheon is served from 12 to 3 o'clock at 3s. 6d., and a dinner from 6 to 9.30 at 7s. 6d.

In the Western Gardens there is also the

### **GARDEN RESTAURANT,**

where a 2s. luncheon is served from 12 to 3 o'clock, a shilling afternoon tea from 3.30 to 5.30, and a 3s. 6d. dinner from 6 to 10 p.m. This has been reconstructed in modern style, and the dinner will be found faultless, and to supply a long-felt want.

The Western Gardens also contain a

### **LAGER BEER HALL,**

wherein Lager Beer is served in the perfection of condition, together with a number of light and dainty English and Teutonic dishes, from opening until closing time. An orchestra serves to increase the popularity of this department.

In **ELYSIA**, at the north end of the grounds, is to be found the

### **CANTEEN,**

where a specially cheap tariff, to meet excursionists, is always in vogue. In this department a plate of cold meat is charged 6d., bread and cheese 2d., milk 1d., tea 2d., coffee 2d., mineral waters 2d., and all exciseable liquors at public house prices. In this department also excursion parties can be accommodated, and special quotations for them will be made on application to the Refreshment Contractors.

In that part of the Exhibition grounds which is known as **ELYSIA**, South End, an entirely new

### **TEA PAVILION**

has been constructed for the service of tea, coffee, and light refreshments at the usual prices.

In addition to all the above, there are numerous bars and buffets in the grounds and buildings, where tea, coffee, temperance beverages, alcoholic liquors, light refreshments, cigars, and cigarettes can be obtained at the usual rates.

# INTERNATIONAL FIRE EXHIBITION

## Refreshment Tariff.

**SPIERS & POND, LTD., Contractors.**

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**Quadrant Dining Room, Western Gardens.**—Luncheon, 12 to 3 o'clock, 3s. 6d.; Dinner, 6 to 9.30, 7s. 6d.

**Garden Restaurant, Western Gardens.**—2s. Luncheon, 12 to 3 o'clock; 1s. Afternoon Tea, 3.30 to 5.30; 3s. 6d. Dinner, 6 to 10.

**Lager Beer Hall, Western Gardens.**—English and German Dishes and Light Refreshments; Lager Beers.

**Grill Room, Queen's Court.**—Luncheons, Dinners, and Suppers at ordinary grill-room prices, noon till 11 p.m.

**Queen's Restaurant, Queen's Court.**—Same as Grill.

**Canteen in Elysia.**—Plate of Cold Meat, 6d.; Bread and Cheese, 2d.; Milk, 1d.; Tea, 2d.; Coffee, 2d.; Mineral Waters, 2d. Liquors at public-house prices. Special quotations for Excursion Parties on application to the Refreshment Contractors.

**Tea Pavilion, Elysia.**—Tea, Coffee, and Light Refreshments at usual prices.

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**Special Tariff for Excursion Parties, large or small, by pre-arrangement with the Caterers.**



# TRAINS FROM THE EXHIBITION. DISTRICT RAILWAY.

## EVENING TRAINS LEAVE

### Earl's Court Station

At the following times for:

Notting Hill and  
Ladbroke Grove, West-  
bourne Park, Royal Oak,  
and Bishop's Road.

Willesden,  
Camden Town,  
Highbury, Dalston,  
Broad Street, &c.

P.M.	P.M.
5.25	8.55
5.55	9.25
6.25	9.55
6.55	10.25
7.25	10.55
7.55	11.25
8.25	11.55

P.M.	P.M.
5.5	9.35
5.35	10.5
6.5	10.35
6.35	11.5
7.5	11.35 HH
7.35	Midnight
8.5	12.5 WJ
8.35	
9.5	

### Calling at

Addison Road  
(Kensington)  
Uxbridge Road (for  
Shepherd's Bush)  
St. Quinton Park and  
Wormwood Scrubbs  
Willesden  
Kensal Rise  
Brondesbury  
West End Lane  
Finchley Road and  
Frogna

Hampstead Heath  
Gospel Oak  
Kensington  
†Camden Town  
†Maiden Lane  
†Caledonian Road  
and Barnsbury  
\*Highbury and  
Islington  
\*Canonbury  
\*Mildmay Park  
†Dalston Junction  
†Haggerston  
†Shoreditch  
Broad Street

### Calling at

Addison Road  
(Kensington)  
Uxbridge Road (for  
Shepherd's Bush)  
Latimer Road  
Notting Hill and  
Ladbroke Grove  
Westbourne Park  
Royal Oak  
Bishop's Road (for  
Paddington Station)

H.H. This train does not go beyond Hampstead Heath.

W.J. This train does not go beyond Willesden. Arrive 12.22 midnight.

†Change at Camden Town for Maiden Lane and Caledonian Road and Barnsbury.

\*Change at Highbury and Islington for Canonbury and Mildmay Park.

†Change at Dalston Junction for Haggerston and Shoreditch

## EVENING TRAINS LEAVE

### West Brompton Station (District Railway)

At the following times for:

City, Whitechapel,  
Bow Road, East Ham  
(for Tilbury Line)  
and New Cross.

Putney Bridge and  
Wimbledon.

P.M.	P.M.
5.13 W.	8.30 * X.
5.22 W.S.	8.37 *
5.22 E.X.	8.53 B.
5.37 B.S.	9.7 E.
5.37 E.X.	9.22 N.C.
5.43 X.	9.37 *
5.56 B.	9.52 B.
6.7 B.S.	10.0 * X.
6.13 X.	10.5
6.22 E.	10.14
6.33 *	10.33 *
6.38 E.	10.54 B.
6.53 E.X.	11.18 E.
6.53 B.S.	11.18 *
7.0 * X.	11.139E
7.7 *	11.52 *
7.23 E.	11.58B
7.30 * X.	Not
7.37 *	to New
7.53 E.	Cross.
8.0 * X.	
8.7 *	
8.23 W.	

P.M.	P.M.
5.8 W.†	8.8
5.18 X.	8.21 W.
5.28 W.	8.38
5.38	8.51 W.
5.46 W.	9.8 W.
5.58 W.	9.20
6.8 X.	9.28 W.X
6.16 W.†	9.34 W.S
6.28 W.	9.47
6.38 X.	10.4 W.
6.44 S.	10.20 W.
6.47 W.X	10.34
6.58 W.	10.48 W.
7.8 X.	11.9 W.
7.14 S.	11.24
7.18 W.X.	11.34 W.
7.28 W.	11.58 W.
7.38	12.24 W.
7.51 W.	12.38
7.58 X.	

### Calling at

Waltham Green.  
Parsons Green.  
Putney Bridge.  
East Putney.  
Southfields.  
Wimbledon  
Park.  
Wimbledon.

W. Wimbledon Line  
trains.  
†Not beyond Putney  
Bridge on Saturdays.  
X. Saturdays excepted.  
S. Saturdays only.

Shadwell.  
Wapping.  
Rotherhithe.  
Deptford Road.  
New Cross.  
X. Saturdays excepted.  
S. Saturdays only.  
W. Whitechapel trains  
N.C. New Cross trains.  
B. Bow Road trains.  
E. East Ham trains.

### Calling at

Earl's Court.  
Gloucester Road.  
South Kensington.  
Sloane Square.  
Victoria.  
St. James' Park.  
Westminster.  
Charing Cross.  
Temple.  
Blackfriars.  
Mansion House.  
Cannon Street.  
Monument.  
Mark Lane.  
Aldgate East.  
St. Mary's.  
Whitechapel.  
Stepney Green.  
Mile End.  
Bow Road.  
Bromley.  
West Ham.  
Plaistow.  
Upton Park.  
East Ham.

\* To High Street (Kensington), passengers for Gloucester Road and stations beyond, by these trains, change at Earl's Court.

† Not to West Ham.

Trains leave Gloucester Road and High Street (Kensington), for Baker Street, King's Cross, &c., at 10 minutes' intervals. Last train, 12.2 from Gloucester Road, 12.5 from High Street (Kensington).

Passengers for stations beyond Whitechapel should enquire whether the Train stops at their station.

For further Particulars see the Company's Time Tables.

# TRAINS FROM THE EXHIBITION.

## DISTRICT RAILWAY.

### Evening Trains leave West Kensington Station

At the following Times for :

CITY, WHITECHAPEL, AND NEW CROSS.  
BOW ROAD, EAST HAM (for Tilbury Line).

RICHMOND, CHISWICK PARK, EALING, AND HOUNSLOW.

P.M.	P.M.	P.M.	P.M.	P.M.
5. 2 NC	6.11 EX	7.41 B	9.31	11.13 E
5.11 E	6.11 BS	7.50 *X	9.41 E	11.149
5.18 *	6.22 *	8. 2 NC	9.48 *	12.18 M
5.26 BX	6.32 NC	8.11 E	10.2 NC	
5.32 NC	6.42 W	8.19	10.11	
5.41 EX	6.51 *	8.31 NC	10.22NC	
5.41 BS	7. 2 NC	8.41 E	10.41 E	
5.50 *X	7.11 B	9. 1 NC	10.51 *	
5.51 S	7.21	9.11 E	11.2 NC	
6. 2 NC	7.32 NC	9.18 *	11.19NC	

#### Calling at

Earl's Court  
Gloucester Road  
South Kensington  
Sloane Square  
Victoria  
St. James' Park  
Westminster  
Charing Cross  
Temple  
Blackfriars  
Mansion House  
Cannon Street  
Monument

Mark Lane  
Aldgate East  
St. Mary's  
Whitechapel  
Stepney Green  
Mile End  
Bow Road  
Bromley  
West Ham  
Plaistow  
Upton Park  
East Ham

Shadwell  
Wapping  
Rotherhithe  
Deptford Road  
New Cross

M. Stations to Mansion House only.

W. Whitechapel Trains.

N.C. New Cross Trains.

B. Bow Road Trains.

E. East Ham Trains.

S. Saturdays only.

X. Saturdays excepted.

\*To High Street (Kensington). Passengers for Gloucester Road and Stations beyond, by these trains, change at Earl's Court.

†Not to West Ham.

‡Change at Earl's Court for High Street, Kensington, and stations to Bow Road only.

Trains leave Gloucester Road and High Street (Kensington) for Baker Street and King's Cross, &c., at 10 minutes' intervals. Last train, 12.2 from Gloucester Road, 12.5 from High Street (Kensington).

Passengers for stations beyond Whitechapel should enquire whether the train stops at their station.

To Richmond.	To Chiswick Park and Ealing.	To Hounslow (change at Mill Hill Park unless otherwise shown).
P.M.	P.M.	P.M.
5. 2	5.13	5.13 S
5.32	5.23*	5.21 X
6. 2	5.43	5.43 S
6.32	5.43†53	5.53 X
7. 2	6.13	6.13 S
7.32	6.23†*	6.23 X
8. 2	6.43	6.43 S
8.32	6.52†*	6.52 X
9. 2	7.13	7.13
10.2	7.23*	7.43
10.32	7.43	8.13
11. 2	8.13	8.43
11.32	8.43	9.20
12. 2	9.20	9.43
12.26	9.43	10.20
	10.20	10.50
	10.50	11.20
	11.20	11.49
	11.49	12.10
	12.10†	12.34
	12.34	

#### Calling at

Hammersmith  
Ravenscourt Park  
Turnham Green  
Gunnersbury  
Kew Gardens  
Richmond  
Chiswick Park and Acton Green  
Mill Hill Park  
Ealing Common  
Ealing (Broadway)  
South Ealing  
Boston Road  
Osterley  
Hester-Hounslow  
Hounslow Town  
Hounslow Barracks.

Richmond Line Stations.

Ealing Line Stations.

Hounslow Line Stations.

T. Through train Hounslow.

\* Not to station beyond Chiswick Park Saturdays.

† Change at Mill Hill Park for Ealing Line.

X. Saturdays excepted.

S. Saturdays only.

For further Particulars see the Company's Time Tables.

# TRAINS FROM THE EXHIBITION.

## DISTRICT RAILWAY.

### Evening Trains Leave Earls Court Station

AT THE FOLLOWING TIMES FOR

CITY, NEW CROSS,  
WHITECHAPEL,  
BOW ROAD  
AND EAST HAM  
(For Tilbury Line).

Trains leave every few  
minutes up to 9 p.m.

P.M.	P.M.	P.M.
8.55B	10.8	11.24NC
9.5NC	10.14*S	11.742E
9.8	10.16E	11.55*
9.14E	10.25NC	12.0B
9.21*	10.36*	12.21
9.25NC	10.38	Not beyond Mansion House.
9.38	10.44E	
9.39*	10.54*	
9.44E	10.56B	
9.51*	11.5NC	
9.55B	11.8	
10.6*x	11.711E	
10.5NC	11.21*	

PUTNEY BRIDGE  
AND  
WIMBLEDON.

P.M.	P.M.	P.M.
5.6WM†	6.56WM	9.26} WM
5.16SE	7.6SE	9.32} WM
5.26WM	7.12SO	9.36} WM
5.36	7.16} WM	9.45
5.44WM	7.26WM	10.2WM
5.56WM	7.36	10.18WM
6.6SE	7.49WM	10.32
6.14WM†	7.56SE	10.46WM
6.26WM	8.6	11.7WM
6.36SE	8.19WM	11.22
6.42SO	8.36	11.32WM
6.45WM	8.49WM	11.56WM
(SE)	9.6WM	12.22WM
	9.18	12.36

RICHMOND, CHISWICK  
PARK, EALING AND  
HOUNSLOW.

To Richmond.	To Chiswick Park and Ealing	To Hounslow (change at Mill Hill Park unless otherwise shown)
P.M.	P.M.	P.M.
4.59	5.10	9.17
5.29	5.20*	9.40
5.59	5.40	10.17
6.29	5.50*	10.47
6.59	6.10	11.17
7.29	6.20*	11.46
7.59	6.40	12.17
8.29	6.49*	12.31
8.59	7.10	
9.59	7.20*	
10.29	7.40	
10.59	8.10	
11.29	8.40	
11.59		
12.23		

#### Calling at

Gloucester	Mark Lane
South [Rd.]	Aldgate E.
Kensington	St. Mary's
Sloane Sq.	Whitech'p'l
Victoria	Stepney
St. James'	Green
Park	Mill End
Westminster	Bow Road
Charing X	Bromley
Temple	West Ham
Blackfriars	Plaistow
Mansion H.	Upton Park
Cannon St.	East Ham
Monument	
Shadwell	
Wapping	
Rotherhithe	
Deptford Rd.	
New Cross	
S. Saturdays only.	
* Saturdays excepted.	

#### Calling at

West Brompton	
Walham Green	
Parsons Green	
Putney Bridge	
East Putney	
Southfields	
Wimbledon Pk.	
Wimbledon	
S.O. Saturdays only.	

S.E. Saturdays Excepted.  
W.M. Wimbledon Line trains  
† These trains do not run  
beyond Putney Bridge on  
Saturdays.

#### Calling at

West Kensington	
Hammersmith	
Ravenscourt Park	
Turnham Green	
Gunnerybury	
Kew Gardens	
Richmond	
Chiswick Park and	
Acton Green	
Mill Hill Park	
Ealing Common	
Ealing (Broadway)	
South Ealing	
Boston Road	
Osterley	
Heston-Hounslow	
Hounslow Town	
Hounslow Barracks	

T Through train to Hounslow.  
\* Not to Stations beyond  
Chiswick Park on Saturdays.  
† Change at Mill Hill Park  
for Ealing Line.  
x Saturdays excepted.  
s Saturdays only.  
c Does not call at Chiswick  
Park.

B. Bow Road trains.

N.C. New Cross trains.

Trains leave Gloucester Road and High Street  
(Kensington) for Baker Street, King's Cross, &c.,  
at 10 minutes' intervals. Last train, 12.2 from Gloucester  
Road, 12.5 from High Street (Kensington).

Passengers for stations beyond Whitechapel should  
enquire whether the train stops at their station.

† Not to West Ham.

E. East Ham trains.

\* High Street, Kensington.

For further Particulars, see the Company's Time Tables.



# EARL'S COURT.

## OMNIBUS ROUTES.

LONDON GENERAL OMNIBUS COMPANY, LIMITED.

*The following services of Omnibuses PASS THE EARL'S COURT EXHIBITION, viz.:—*

### FULHAM (PRINCE OF WALES) AND OXFORD CIRCUS.

Colour : BLUE (White panel).

*Via* Lillie Road, Brompton Road, South Kensington Station, Sloane Street, Piccadilly, Piccadilly Circus, Regent Street, Oxford Circus.

### WEST KENSINGTON (CLARENCE) AND LIVERPOOL STREET.

Colour : WHITE (Red panel).

*Via* Walham Green, Chelsea, Victoria, Westminster Bridge and Charing Cross Stations, Strand, Bank, Liverpool Street.

### WALHAM GREEN AND SHEPHERD'S BUSH.

Colour : GREEN.

*Via* Walham Green, North End Road, West Kensington Station, Addison Road Station, Shepherd's Bush Station.

### WEST KENSINGTON AND SHOREDITCH.

Colour : BROWN (Red side panels). Route "L."

*Via* North End Road, Lillie Road, Richmond Road, Old Brompton Road, South Kensington Station, Brompton Road, Knightsbridge, Hyde Park Corner, Piccadilly, Piccadilly Circus, Regent Street, Waterloo Place, Charing Cross, Strand, Fleet Street, Ludgate Circus, Ludgate Hill, St. Paul's Churchyard, Cannon Street, Queen Victoria Street, Bank, Threadneedle Street, Bishopsgate Street, to Shoreditch. Return *via* Liverpool Street and Broad Street to Bank.

### WEST KENSINGTON AND MILE END.

Colour : LIGHT GREEN (White panel).

*Via* "Clarence," West Kensington, Lillie Road, Old Brompton Road, South Kensington Station, Sloane Street, Piccadilly, Shaftesbury Avenue, Holborn, Bank, Cornhill, Leadenhall Street, Aldgate, Whitechapel, Burdett Road.

### PUTNEY AND BRONDESBURY.

Colour : BLUE (Red panel).

*Via* Putney High Street, Fulham, Walham Green, Lillie Road, Earl's Court Road, Kensington Church, Church Street, Notting Hill Gate, Westbourne Grove, Richmond Road, Harrow Road, West Kilburn, High Road, Kilburn.

### WEST HAMPSTEAD, OR FINCHLEY ROAD, AND FULHAM ROAD.

Colour : BLUE.

*Via* Earl's Court Road as above, to Kilburn High Road, thence *via* Quex Road and West End Lane, to West Hampstead and Kilburn Priory, and Canfield Gardens to Finchley Road.

### KENSINGTON AND ISLINGTON.

Colour : WHITE.

*Via* Earl's Court Road as above, to Westbourne Grove, thence *via* Paddington, Praed Street, Edgware Road, Marylebone Road, Euston Road, Pentonville, passing the G.W., G.C., L. & N.W., Mid., and G.N. Railway Stations.

## THE LONDON ROAD CAR COMPANY, LIMITED.

*This Company has Four Routes of Omnibuses which immediately PASS THE ENTRANCES TO THE EARL'S COURT EXHIBITION PREMISES. The particulars of same are as follows:—*

### WEST KENSINGTON AND SHOREDITCH.

Colour: BROWN (Red side panels). Route Letter "L."

*Viâ* North End Road, Lillie Road, Richmond Road, Old Brompton Road, South Kensington Station, Brompton Road, Knightsbridge, Hyde Park Corner, Piccadilly, Piccadilly Circus, Regent Street, Waterloo Place, Charing Cross, Strand, Fleet Street, Ludgate Circus, Ludgate Hill, St. Paul's Churchyard, Cannon Street, Queen Victoria Street, Bank, Threadneedle Street, Bishopsgate Street, to Shoreditch.

Return *viâ* Liverpool Street and Broad Street to Bank.

Service every Nine Minutes.

### WEST KENSINGTON AND LONDON BRIDGE.

Colour: BROWN (Blue side panel). Route Letter "B."

*Viâ* Cedar's Hotel, North End Road, Lillie Road, Richmond Road, Old Brompton Road, South Kensington Station, Brompton Road, Knightsbridge, Albert Gate, Hyde Park Corner, Piccadilly, Piccadilly Circus, Shaftesbury Avenue, Charing Cross Road, New Oxford Street, Holborn, Holborn Viaduct, Newgate Street, General Post Office, Cheapside, Bank, King William Street, Monument, over London Bridge to Railway Station Yard.

Service every Nine Minutes.

### FULHAM PALACE ROAD AND OXFORD CIRCUS.

Colour: BROWN. Route Letter "K."

*Viâ* "The Greyhound," Fulham Palace Road, Lillie Road, Richmond Road, Old Brompton Road, South Kensington Station, Brompton Road, Knightsbridge, Albert Gate, Hyde Park Corner, Piccadilly, Piccadilly Circus, Regent Street to Oxford Circus.

Service every Eight Minutes.

### PUTNEY AND BRONDESBURY.

Colour: ORANGE. Route Letter "Q."

*Viâ* Putney Station, Putney High Street, Putney Bridge, Fulham High Street, Fulham Road, North End Road, Lillie Road, Earl's Court Road, Kensington High Street, Church Street, Silver Street, Notting Hill Gate, Pembridge Villas, Richmond Road, Great Western Road, Waltham Road, Cambridge Road, High Road, Kilburn, to Brondesbury.

Service every Twelve Minutes.

### PUTNEY AND OXFORD CIRCUS.

Colour: ORANGE. Route Letter "S."

Same as "Q" Route to Richmond Road, and thence *viâ* Westbourne Grove, Paddington Station, Praed Street, Chapel Street, Baker Street, and Oxford Street to Oxford Circus.

Service every Twelve Minutes.

### CAB DISTANCES FROM WARWICK ROAD ENTRANCE.

Measured by Authority of the Commissioner of Police of the Metropolis.

**Warwick Road, Trebovir Road, Earl's Court, to or from:—**

		MILES. YDS.				MILES. YDS.	
Albert Rd., Regent's Pk.	Avenue Rd.	4	398	Paddington Green (S. Side)			
Bank of England	Threadneedle St.	5	568		The Church	2	1752
Battersea Bdge.	Beaufort St., Chelsea	1	664	Pall Mall	.. .. .	War Office	3 352
Battersea Pk.				Park Lane	.. .. .	Grosvenor Gate	2 1561
	Chelsea Suspension Bridge	2	1094	Piccadilly	.. .. .	Half Moon Street	2 1113
Bayswater Road	Porchester Terrace	2	165	Piccadilly Circus	.. .. .	Regent Street	2 235
Bedford Square	.. Bloomsbury	3	1643	Portland Place	.. .. .	Weymouth Street	3 1545
Belgrave Square	.. .. .	2	241	Post Office (Gen.)			
Berkeley Square	.. .. .	2	1714		St. Martin's le Grand	5	3
Boitons, The (N.W. Corner)							
Bryanston Square	W. Brompton	—	1078	RAILWAY STATIONS.			
Cranbridge Circus (centre)	.. Marylebone	3	257	Addison Rd. West London Extension	—	1459	
	Charing Cross Road	3	871	Cannon Street	.. .. .	South Eastern	5 462
Campden Hill Road				Charing Cross	.. .. .	South Eastern	3 1184
	Upper Phillimore Gardens	1	111	Clapham Jun. (L.B. & S.C.)			
Campden Hill Sq.	Holland Park Av.	1	1095		Prested Road Cab Stand	2	1757
Castelnau, Barnes, Lonsdale Road				Clapham Jun. (L. & S.W.)	Cab Stand	3	247
	Within Radius, 1 m. 276 yds.	2	127	Euston	.. .. .	North Western	4 1360
	Beyond Radius, —m. 1611 yds.	2	127	Fenchurch Street	.. .. .	Blackwall	5 1335
Cavendish Square	.. .. Marylebone	3	1051	King's Cross	.. .. .	Great Northern	5 190
Charing Cross	King Charles Statue	3	968	Liverpool Street	.. .. .	Great Eastern	5 1370
Chester Square	St. Michael's Church	2	511	London Bridge	.. .. .	London & Brighton	5 675
Clapham High Street, "The Plough"		3	1673	Mansion House	Metropolitan District	5	109
Clapham Common	Broomwood Road	3	928	Marylebone	.. .. .	Great Central	3 622
Dorset Square	.. .. Marylebone	3	803	Moorgate Street	.. .. .	Metropolitan	5 886
Downing Street	Treasury Passage	3	1170	Paddington	.. .. .	Great Western	2 1280
Earl's Court Road	Cromwell Road	—	608	St. Pancras	.. .. .	Midland	4 1700
Earl's Square	St. Peter's Church	2	619	St. Paul's	.. .. .	Chatham & Dover	4 1199
Eccleston Sq. (S.W. Corner)	Pimlico	2	1007	Vauxhall	.. .. .	South Western	3 1150
Edgware Road	.. Marylebone Road	2	1683	Victoria (Centre of Frontage)	.. .. .		2 1203
Fleet Street	.. .. Fetter Lane	4	636	Waterloo (L & S.W.)			
Fulham Road					Main Line Depart.	4	419
	W. London Cemetery, Brompton	—	1312	Westbourne Park	.. .. .	Great Western	2 926
Fulham High Street, Fulham Road				Red Lion Sq. (St. John's Ch.)	Holborn	4	193
	Within Radius, 1 m. 714 yds.	1	1403	Regent's Park			
	Beyond Radius, —m. 689 yds.	1	1403		Cumberland Terrace (Centre of)	4	1090
Fulham Palace Road, Lillie Road				Regent's Park	.. .. .	Hanover Gate	4 2
	Within Radius, 1 m. 84 yds.	1	692	Regent's St. Langham Pl., The Church	3	1150	
	Beyond Radius, —m. 608 yds.	1	692	Russell Square	.. .. .	Bloomsbury	4 418
Gloucester Rd. Queen's Gate Terrace	—	1695		St. George's Sq.	Lupus St., Pimlico	3	72
Gloucester Square	.. .. Paddington	2	997	St. James's Sq.	York St., St. James's	3	234
Golden Square	.. .. St. James's	3	463	St. Paul's Churchyard	Ludgate Hill	4	1346
Grosvenor Place	.. .. Chapel Street	2	633	Shaftesbury Avenue			
Grosvenor Square	.. .. Mayfair	2	1736		Broad Street, Bloomsbury	3	1209
Grove End Road				Shepherd's Bush Green (East End of)	.. .. .		1 767
	Circus Road, St. John's Wood	3	1233	Sloane Square (S.E. Corner)			
Hamilton Terrace					Royal Court Theatre	1	1690
	Abercorn Place, St. John's Wood	3	1300		Railway Station	1	1690
Hammer Smith Road	Brook Green	1	65	Sloane Street	.. .. .	Pont Street	1 1528
Harley St. Devonshire St., Marylebone		3	1472	Soho Sq. (S.W. Corner)	Frith Street	3	1014
High Holborn	Southampton Street	3	1684	Strand	.. .. .	Law Courts	4 356
Houses of Parliament				Tavistock Square	.. .. .	St. Pancras	4 933
	Centre of Palace Yard	3	936	THEATRES, PLACES OF AM			

N.B.—The Distances are measured from the centre of Warwick Road, opposite the centre of Trebovir Road, to the centre of Roads, Entrance Gates of Hospitals and Cemeteries, Booking Offices of Railway Stations, the N.W. Corners of Squares, unless otherwise stated, and across Hyde Park when that route shortens the distance.

METROPOLITAN POLICE OFFICE, *One Mile is 1,760 yards.* E. R. C. BRADFORD,  
11th April, 1900. *The Commissioner of Police of the Metropolis.*



# CAB DISTANCES FROM WEST BROMPTON ENTRANCE.

Measured by Authority of the Commissioner of Police of the Metropolis.

## WEST BROMPTON STATION, RICHMOND ROAD, to or from:—

	MILES.	YDS.		MILES.	YDS.
Albert Rd., Regent's Pk. Avenue Rd.	4	758	Queen's Road, Bayswater		
Bank of England Threadneedle Street	5	613	Porchester Gardens	2	673
Battersea St. Mary's Church, Ch. Rd.	1	1518			
Battersea Bidge Beaufort St., Chelsea	1	568	<b>RAILWAY STATIONS.</b>		
Bedford Square .. .. Bloomsbury	3	1683	Addison Rd. West London Extension	1	217
Belgrave Square .. .. .	2	228	Cannon Street .. South Eastern	5	507
Berkeley Square .. .. .	2	1759	Charing Cross .. South Eastern	3	1229
Bloomsbury Square .. .. .	4	69	Clapham Jun. (L.B. & S.C.)		
Boltons, The (N.W. Corner)			.. Prested Road Cab Stand	2	1661
.. West Brompton	—	982	Clapham Jun. (L. & S.W.) Cab Stand	3	68
Bryanston Square .. .. Marylebone	3	398	Euston .. .. North Western	4	1406
Buckingham Pal. Rd. Ebury Bridge	2	578	Fenchurch Street .. .. Blackwall	5	1380
Cambridge Circus (centre)			King's Cross .. .. Great Northern	5	235
.. Charing Cross Road	3	916	Liverpool Street .. .. Great Eastern	5	1415
Campden Hill Sq. Holland Park Ave.	1	1600	London Bridge London & Brighton	5	650
Cavendish Square .. .. Marylebone	3	1096	Mansion House Metropolitan District	5	154
Charing Cross King Charles Statue	3	1013	Moorgate Street .. .. Metropolitan	5	931
Chester Square .. .. The Church	2	484	Paddington .. .. Great Western	2	1640
Cl'p'm Com (S.E. Cr.) Bal'm Hill Rd.	3	1445	St. Pancras .. .. Midland	4	1745
Dorset Square .. .. Marylebone	3	940	St. Paul's Chatham & Dover	4	1244
Downing Street Treasury Passage	3	1120	Vauxhall .. .. South Western	3	1108
Earl's Court Road Cromwell Road	—	1123	Victoria (Centre of Frontage)	2	1178
Eaton Square .. .. The Church	2	606	Waterloo (L. & S.W.)		
Eccleston Sq. (S.W. Corner) Pimlico	2	965	.. Main Line Depart.	4	412
Edgware Road Marylebone Road	3	64	Westbourne Park Great Western	2	1401
Elgin Avenue Shirland Road	3	758	Red Lion Sq. (St. John's Ch.) Holborn	4	238
Fleet Street .. .. Fetter Lane	4	681	Regent's Park		
Fulham Road			.. Cumberland Terrace (Centre of)	4	1294
.. W. Lon. Cemetery, Brompton	—	1216	Regent's Park .. Hanover Gate	3	1625
Gloucester Rd. Queen's Gate Terrace	1	245	Regent St. Langham Pl., The Church	3	1195
Gloucester Square Paddington	2	1138	Russell Square .. .. Bloomsbury	4	463
Golden Square .. .. St. James's	3	508	St. George's Sq. Lupus St., Pimlico	3	30
Grosvenor Place .. .. Chapel Street	2	620	St. James's Sq. York St., St. James's	3	279
Grosvenor Square .. .. Mayfair	3	21	St. Paul's Churchyard Ludgate Hill	4	1391
Grove End Road			Shaftesbury Av. Broad St., Bloomsbury	3	1254
.. Circus Road, St. John's Wood	3	1593	Shepherd's Bush Green (East End of)	1	1285
Hamilton Terrace			Sloane Square (S.E. Corner)		
.. Abercorn Place, St. John's Wood	3	1660	.. Royal Court Theatre	1	1648
Hammersmith Broadway			.. Railway Station	1	1648
.. Within Radius, 1 m. 609 yds.	1	1107	Sloane Street .. .. Port Street	1	1515
.. Beyond Radius, —m. 498 yds.	1	1107	Soho Sq. (S.W. Corner) Frith Street	3	1059
Hanover Square .. .. .	3	705	Somerset House .. .. Strand	3	1745
Harley St. Devonshire St., Marylebone	3	1613	Southwick Crescent (Paddington)		
Harrow Road .. .. Elgin Avenue	3	106	.. The Church	2	1338
High Holborn Southampton Street	3	1729	Strand .. .. Law Courts	4	401
Houses of Parliament			Tavistock Square .. .. St. Pancras	4	978
.. Centre of Palace Yard	3	911			
Kensington High St. Church St.	1	472	<b>THEATRES, PLACES OF AMUSEMENT,</b>		
King's Road, Chelsea Sydney Street	1	858	<b>ETC.</b>		
Knightsbridge .. .. Sloane Street	1	1594	Adelphi Theatre .. .. Strand	3	1301
Ladbroke Grove .. St. John's Church	2	248	Albert Hall .. .. Kensington Road	1	1076
Lavender Hill .. .. The Town Hall	2	1257	Alhambra .. .. Leicester Square	3	742
London Bridge Adelaide Place, City	5	904	Botanic Gardens .. .. Regent's Park	4	149
Long Acre .. .. St. Martin's Lane	3	926	Covent Garden Theatre Bow Street	3	1393
Ludgate Circus .. .. . City	4	1055	Drury Lane Theatre Catherine St.	3	1534
Maida Hill			Gaiety Theatre .. .. Strand	3	1646
.. Aberdeen Place, Edgware Road	3	746	Globe Theatre Newcastle St., Strand	4	150
Manchester Square .. .. Marylebone	3	765	Haymarket Theatre .. .. .	3	632
Mansion House .. .. City	5	514	Imperial Institute .. .. .	1	610
Marble Arch .. .. Oxford Street	3	96	Lyceum Theatre		
Marylebone Rd. St. Marylebone Ch.	3	1434	.. Wellington St., Strand	3	1649
Onslow Square .. .. Brompton	1	96	Lyric Theatre Shaftesbury Avenue	3	501
Oxford Street Tottenham Court Road	3	1297	Madame Tussaud's Marylebone Road	3	1214
Paddington Green .. .. The Church	3	352	National Gallery Trafalgar Square	3	967
Pall Mall .. .. War Office	3	397	Pavilion Theatre Whitechapel Road	6	909
Park Lane .. .. Grosvenor Gate	2	1606	Prince of Wales's Theatre		
Pembroke Square .. .. Notting Hill	2	65	.. Coventry Street	3	489
Piccadilly .. .. Old Bond Street	2	1594	Princess's Theatre Oxford Street	3	1122
Piccadilly Circus .. .. Regent Street	3	280	Royalty Theatre Dean St., Soho	3	888
Portland Place Weymouth Street	3	1614	St. James's Hall .. .. Regent Street	3	289
.. Post Office (Gen.)			.. St. James's Theatre		
.. St. Martin's le Grand	5	48	.. King Street, St. James's	3	122
Queen Anne's Gate			Shaftesbury Theatre Shaftesbury Av.	3	792
.. Western Side, Westminster	3	269	Westbourne Grove Hereford Road	2	539

N.B.—The distances are measured from centre of road opposite centre of Booking Office (West London Extension), to the Centres of Roads, Entrance Gates of Hospitals and Cemeteries, Booking Offices of Railway Stations, the N.W. Corners of Squares, unless otherwise stated, and across Hyde Park when that route shortens the distance.

METROPOLITAN POLICE OFFICE,

25th October, 1897.

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E. R. C. BRADFORD,

The Commissioner of Police of the Metropolis.

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(SEE PAGE FIVE.)

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# PROGRAMME OF MUSIC,

WEDNESDAY, SEPTEMBER 30th, 1903.

BAND OF

## H. M. GRENADIER GUARDS

(By permission of Colonel H. Ricardo, C.V.O.)

Conductor - - Mr. A. WILLIAMS, Mus. Bac. (Oxon.)

### WESTERN GARDENS.

3.15 to 5.30.

1. Marche Militaire ... .. *Gounod*
2. Selection ... .. "The Girl from Kay's" ... .. *Caryll & others*  
Introducing—We are the Women from Kay's; The Bonnet Shop; The Customers  
at Kay's; That's Papa; A High Old Time; Semi-detached; Goody-goody Girls;  
I don't care (*Paul A. Rubens*); Bob and me (*Howard Talbot*); Love at the Door;  
Mrs. Hoggeneimer.
3. "Ein Albumblatt" ... .. *Wagner*
4. Reminiscences of Beethoven ... .. *Winterbottom*
5. Suite ... .. "Espagnole" ... .. *Desormes*  
1. Seguedille. 2. Havanaise. 3. Bolero de Cadix. 4. Cachuca. 5. Zapateado.

### INTERVAL OF 15 MINUTES.

6. Overture ... .. "A Midsummer Night's Dream" ... .. *Mendelssohn*
7. "Sizilietta" ... .. *F. von Blon*
8. Symphony in B Minor (Unfinished) ... .. *Schubert*  
1. Allegro moderato. 2. Andante con moto.
9. Graceful Dance ... .. *Sullivan*

7.15 to 10.30.

1. Slav March ... .. *Tschaikowsky*
2. Grand Selection ... .. "Faust" ... .. *Gounod*  
SYNOPSIS—Chorus of Swordsmen, "Gainst the pow'rs of evil" (Act 2); Duet,  
"Farewell, the hour is late" (Act 3); Chorus, "Light as air at dawn of morning"  
(Act 2); Recitative, "Tis wither'd, alas" (Act 3); Air, "All hail, brightest of days"  
(Act 1); Cavatina, "All hail, thou dwelling pure and lowly" (Act 3); Fanfare and  
chorus (Act 4); The Jewel Song (Act 3); Duet, "O Tender moon, O starry Heav'n"  
(Act 3); and concluding with the Soldiers' Chorus, "Gloria Immortelle."
3. { a. Descriptive Piece ... .. "An Irish Patrol" ... .. *Puerner*  
b. "The Mosquito's Parade" ... .. *Howard Whitney*
4. Grand Selection ... .. "Samson and Delilah" ... .. *Saint-Saëns*  
*Allegro moderato*, Prosper our Hearts; *Allegro agitato*, Scena, O Love, from the  
Power; *Allegro moderato*, Chorus, The Breath of God; *Allegretto*, Dance of the  
Priestesses of Dagon; *Allegretto*, Chorus, The Dawn now awakening; *Andantino*,  
Softly awakes my Heart; *L'istesso tempo*, Solo and Chorus, Israel, burst your bonds.


### INTERVAL OF 15 MINUTES.

5. Overture ... .. "Tannhäuser" ... .. *Wagner*
6. Cornet Solo ... .. "The Light of the World" ... .. *S. Adams*  
Soloist—Corporal R. GAY.
7. Grand Selection ... .. "Cavalleria Rusticana" ... .. *Mascagni*  
Including the famous Intermezzo.
8. "Scènes Pittoresques" ... .. *Massenet*  
1. Marche. 2. Air de Ballet. 3. Angelus. 4. Fête Bohème.

### INTERVAL OF 10 MINUTES.

9. Selection ... .. "My Lady Molly" ... .. *S. Jones*
10. Valse Lente ... .. "Amoureuse" ... .. *Berger*
11. Selection ... .. "A Chinese Honeymoon" ... .. *H. Talbot*  
Introducing—You pat me; I want to be a lidy; Roses, Red and White; The  
Twiddle Bits; Daisy with the dimple on her chin; The à la Girl; Martha  
spans the Grand Pianner; Click, Click.
12. "A Bundle of Mischief" ... .. *Ziehrer*

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Conductor - - - SIGNOR A. VENANZI.

## QUEEN'S COURT.

From 1.30 to 2.30.


1. March	...	...	" Bretonne "	...	...	... <i>Fritsch</i>
2. Walzer	...	...	" Amoretten Tänze "	..	...	... <i>Gung'l</i>
3. Overture	...	...	" Maritana "	...	...	... <i>Wallace</i>
4. Selection	...	...	" Carmen "	...	...	... <i>Bizet</i>
5. March	...	...	" The Stars and Stripes for Ever "	...	...	... <i>Sousa</i>

## IMPERIAL COURT.

From 6 to 7.30.

1. March	...	...	" London Life "	...	...	<i>A. Venanzi</i>
2. Walzer	...	...	" Tout Paris "	...	...	<i>Waldteufel</i>
3. Overture	...	...	" Nabucodonosor "	...	...	... <i>Verdi</i>
4. Selection	...	...	" Florodora "	...	...	<i>L. Stuart</i>
5. Song	...	...	" Killarney " (Solo Cornet) .	...	...	.. <i>Balfe</i>
6. Selection	...	...	" A Runaway Girl "	...	...	... <i>Caryll</i>
7. American Sketch	...	...	" Down South "	...	...	<i>Myddleton</i>

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## IMPERIAL COURT.

From 8 to 5.30.

- |   |                       |     |     |                    |     |     |     |            |
|---|-----------------------|-----|-----|--------------------|-----|-----|-----|------------|
| 1.  | March                 | ... | ... | "Invincible Eagle" | ... | ... | ... | Sousa      |
| 2.  | Selection             | ... | ... | "A Greek Slave"    | ... | ... | ... | S. Jones   |
| Introducing—Oracle Scene; When all is fair; Whirligig Trio; Incantation; Frog Song; The Golden Isle; I cannot love; The Girl of my Heart. |                       |     |     |                    |     |     |     |            |
| 3.  | Valse                 | ... | ... | "L'Etoile Polaire" | ... | ... | ... | Waldteufel |
| 4.  | Selection             | ... | ... | "Bohemian Girl"    | ... | ... | ... | Balfe      |
| 5.  | "A Coon Band Contest" | ... | ... | ...                | ... | ... | ... | Pryor      |

## INTERVAL OF 15 MINUTES.

- |  |           |     |     |                   |     |     |     |                   |
|--|-----------|-----|-----|-------------------|-----|-----|-----|-------------------|
| 6.   | March     | ... | ... | "Cotton Blossoms" | ... | ... | ... | Hall              |
| 7.   | Selection | ... | ... | "A Country Girl"  | ... | ... | ... | L. Monckton       |
| Introducing—Chorus, Hail to the King; Try again, Johnny; Yo Oh, Little Girls, Yo Oh!; My own Little Girl; Tempo di Valse; Peace, Peace; The Pink Hungarian Band; The Rajah of Bhong; Under the Deodar; Two little Chicks; Farewell, old Cottage Door; Finale, Act 1. |           |     |     |                   |     |     |     |                   |
| 8.   | American  | ... | ... | "Dinah's Jubilee" | ... | ... | ... | Karl Kaps         |
| 9.   | Overture  | ... | ... | "William Tell"    | ... | ... | ... | Rossini           |
| 10.  | Selection | ... | ... | "The Toreador"    | ... | ... | ... | Monckton & Caryll |
| Introducing—Keep off the grass; España; My Toreador; Everybody's awfully good to me; When I marry Amelia; Maud, Maud; Ah, Señor; Language of Flowers; Archie; Toreador's Song; Finale.   |           |     |     |                   |     |     |     |                   |

## QUEEN'S COURT.

From 7 to 8.15.

- |  |                                |     |     |                     |     |     |     |          |
|--|--------------------------------|-----|-----|---------------------|-----|-----|-----|----------|
| 1.   | March                          | ... | ... | "Stars and Stripes" | ... | ... | ... | Sousa    |
| 2.   | Overture                       | ... | ... | "Haydée"            | ... | ... | ... | Auber    |
| 3.   | "The Warbler's Serenade"       | ... | ... | ...                 | ... | ... | ... | W. Perry |
| 4.   | Selection                      | ... | ... | "The Circus Girl"   | ... | ... | ... | Caryll   |
| 5.   | Valse                          | ... | ... | "Sobre les Olas"    | ... | ... | ... | Rosas    |
| 6.   | Grand Selection                | ... | ... | "Faust"             | ... | ... | ... | Gounod   |
| Introduction; Scène de l'église; Chœur, Paresseuse fille; Chœur, Kermesse; Valse et Chœur; Chansons du Roi de Thule; Trio, Anges Purs, Radieux; Chœur, La Mort de Valentin; Chœur de Soldats; Gloire immortelle; Finale. |                                |     |     |                     |     |     |     |          |
| 7.   | "Frolic on the Rye"            | ... | ... | ...                 | ... | ... | ... | G. Gay   |
| 8.   | Selection of Chevalier's Songs | ... | ... | ...                 | ... | ... | ... | Crook    |

## IMPERIAL COURT.

From 9.15 to 10.30.

- |  |  |     |     |                          |     |     |     |              |
|--|--|-----|-----|--------------------------|-----|-----|-----|--------------|
| 1.   | March  | ... | ... | "Manhattan Beach"        | ... | ... | ... | Sousa        |
| 2.   | Grand Military Fantasia, "The Life of a Soldier" | ... | ... | ...                      | ... | ... | ... | Mason        |
| The Recruiting Sergeant; Follow the Drum; Good-bye, Sweetheart; The Young Recruit; Recreation; Review; Ordered on Service; En Route; Bivouac; Prayer; The Alarm; Attack; Victory.  |  |     |     |                          |     |     |     |              |
| 3.   | Trombone Solo                                    | ... | ... | "Alice, where art thou?" | ... | ... | ... | Archer       |
| Soloist—Mr. E. STEAD.  |  |     |     |                          |     |     |     |              |
| 4.   | Selection on American Airs                       | ... | ... | ...                      | ... | ... | ... | Winterbottom |
| 5.   | "Reminiscences of Scotland"                      | ... | ... | ...                      | ... | ... | ... | F. Godfrey   |
| Introducing—Scots Wha Hae; Auld Robin Gray; Bonnie Laddie; The Campbells are Coming; The White Cockade; John Anderson, my Joe; Logie o' Buchan; Green grow the Rushes, O; Strathspey, Annie Laurie; Within a mile of Edinboro'; Bonnet Blue (with variations); The Blue Bells of Scotland; Strathspey, Auld Lang Syne. |  |     |     |                          |     |     |     |              |
| 6.   | Serenade   | ... | ... | "The Darkies"            | ... | ... | ... | Buccalossi   |
| 7.   | March  | ... | ... | "La Période"             | ... | ... | ... | I. Long      |

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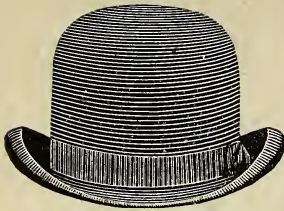
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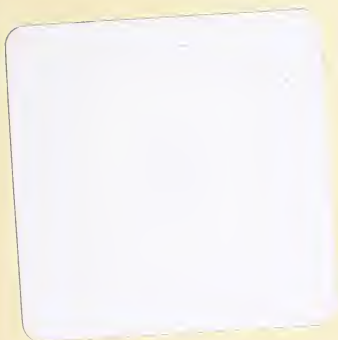
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